



	_
AMENDED REPORT	Ш
(highlight changes)	

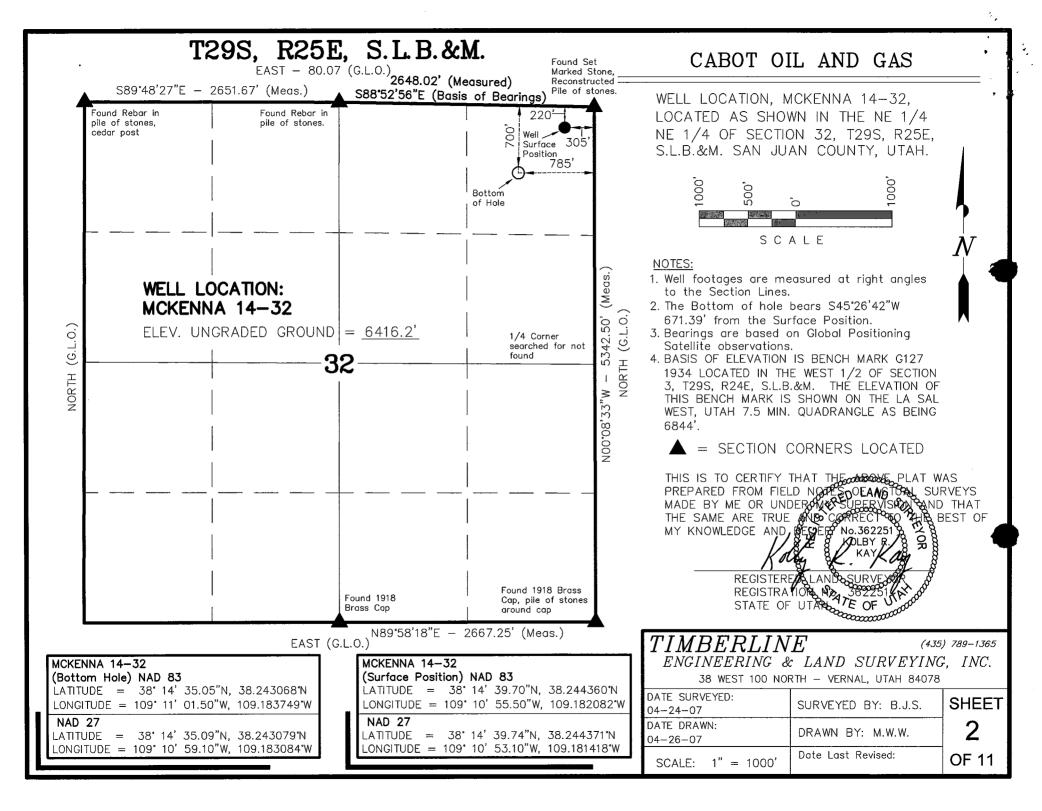
	APPL	LICATION FOR	PERMIT TO	D DRILL		5. MINERAL LEASE ML-48351	NO:	6. SURFACE: State
1A. TYPE OF WO	DRK: DRILL	Z REENTER [DEEPEN			7. IF INDIAN, ALLOT	TEE OR T	RIBE NAME:
B. TYPE OF WE	ELL: OIL GAS	OTHER	SIN	GLE ZONE MULTIPLE ZON	IE 🗸	8. UNIT or CA AGRE	EMENT N	AME:
2. NAME OF OPE						9. WELL NAME and	NUMBER:	
	and Gas Corporat	ion				McKenna 14	1-32	
3. ADDRESS OF 600 17th st		Denver §1	CO 80°	202 PHONE NUMBER: (303) 868-6612		10. FIELD AND POO Wildcat	L, OR WIL	DCAT:
4. LOCATION OF	WELL (FOOTAGES) ω	59154× 423	342814 3	8.24/1324-109.18/	329	11. QTR/QTR, SECT MERIDIAN:	ION, TOW	NSHIP, RANGE,
AT SURFACE:	220' FNL & 305'	FEL		/		NENE 32	29S	25E
AT PROPOSED	PRODUCING ZONE: 70	00' FNL & 785' FE	1654011 × 4	23/4133 4 38.243013 -109.1829	j 02			
14. DISTANCE IN	MILES AND DIRECTION F	ROM NEAREST TOWN OR P	OST OFFICE:	104.1829	92	12. COUNTY:	1	13. STATE:
9.1 miles	southeast from L	.a Sal.	$\langle \wedge \rangle$,		San Juan		UTAH
15. DISTANCE T	NEAREST PROPERTY OF	R LEASE LINE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. N	UMBER OF ACRES AS	SIGNED	TO THIS WELL:
220'		- 2		1,280				40 Acres
18. DISTANCE TO APPLIED FOR	O NEAREST WELL (DRILLIN R) ON THIS LEASE (FEET)	NG, COMPLETED, OR	19. PROPOSED	DEPTH:	20. B	OND DESCRIPTION:		
_NA			SCADY	8,100	58	09579		
	(SHOW WHETHER DF, RT	, GR, ETC.):	<i>y</i>	ATE DATE WORK WILL START:	1	STIMATED DURATION	l:	
6,415 GR		し	6/30/200)7 —	30	Days		
24.		PROPO	SED CASING A	ND CEMENTING PROGRAM				
SIZE OF HOLE	CASING SIZE, GRADE,	AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUA	ANTITY,	YIELD, AND SLURRY	WEIGHT	
12 1/4	9 5/8 J-	55 36#	2,100	Premium Lite Plus	28	2 sks	2.45cf	12.0 ppg
12 1/4	9 5/8 J-	55 36#	2,100	Type III	46	0 sks	1.40cf	14.5ppg
8 3/4	5 1/2 P1	10 17#	8,100	Premium Lite HS	1,32	6 sks	1.76cf	13.5 ppg
		\longrightarrow						<u> </u>
						,		
25.			ATTA	CHMENTS				
VERIFY THE FOL	LOWING ARE ATTACHED	IN ACCORDANCE WITH THE	UTAH OIL AND GAS C	ONSERVATION GENERAL RULES:				
✓ WELL PL	AT OR MAP PREPARED BY	Y LICENSED SURVEYOR OR	ENGINEER	COMPLETE DRILLING PLAN				
✓ EVIDENC	CE OF DIVISION OF WATER	R RIGHTS APPROVAL FOR U	ISE OF WATER	FORM 5, IF OPERATOR IS PE	RSON C	R COMPANY OTHER	THAN THI	E LEASE OWNER
NAME (PLEASE	_{PRINT)} Ginger Strin	gham		TITLE Agent			,	
,	٠	St. 1.	Λ -	5/16/2007				
SIGNATURE	Amoric	<u>xvvmana</u>	<i>√</i> w,	DATE				
(This space for Sta	ite use only))				DEOE ::		

APPROVAL:

MAY 1 8 2007

API NUMBER ASSIGNED:

43-037-31863



STATE ACTIONS

Resource Development Coordinating Committee Public Lands Policy Coordination Office

5110 State Office Building

SLC, UT 84114

Phone No. 537-9230

1. State Agency

Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801 2. Approximate date project will start:

Upon Approval or June 1, 2007

3. Title of proposed action:

Application for Permit to Drill

4. Description of Project:

Cabot Oil and Gas Corporation proposes to drill the McKenna 14-32 well (wildcat) on State lease ML-48351, San Juan County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.

5. Location and detailed map of land affected (site location map required, electronic GIS map preferred)

(include UTM coordinates where possible) (indicate county)

220' FNL 305' FEL, NE/4 NE/4,

Section 32, Township 29 South, Range 25 East, San Juan County, Utah

6. Possible significant impacts likely to occur:

Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.

- 7. Identify local government affected
 - a. Has the government been contacted? No.
 - b. When?
 - c. What was the response?
 - d. If no response, how is the local government(s) likely to be impacted?
- 8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:
 - a. Has the representative and senator been contacted? N/A
- **9. Areawide clearinghouse(s) receiving state action:** (to be sent out by agency in block 1) Southeastern Utah Association of Governments

lu. For furthei	· information,	contact:
-----------------	----------------	----------

Diana Mason

Phone: (801) 538-5312

11. Signature and title of authorized officer

Y Gil Hunt, Associate Director

Date: May 18, 2007

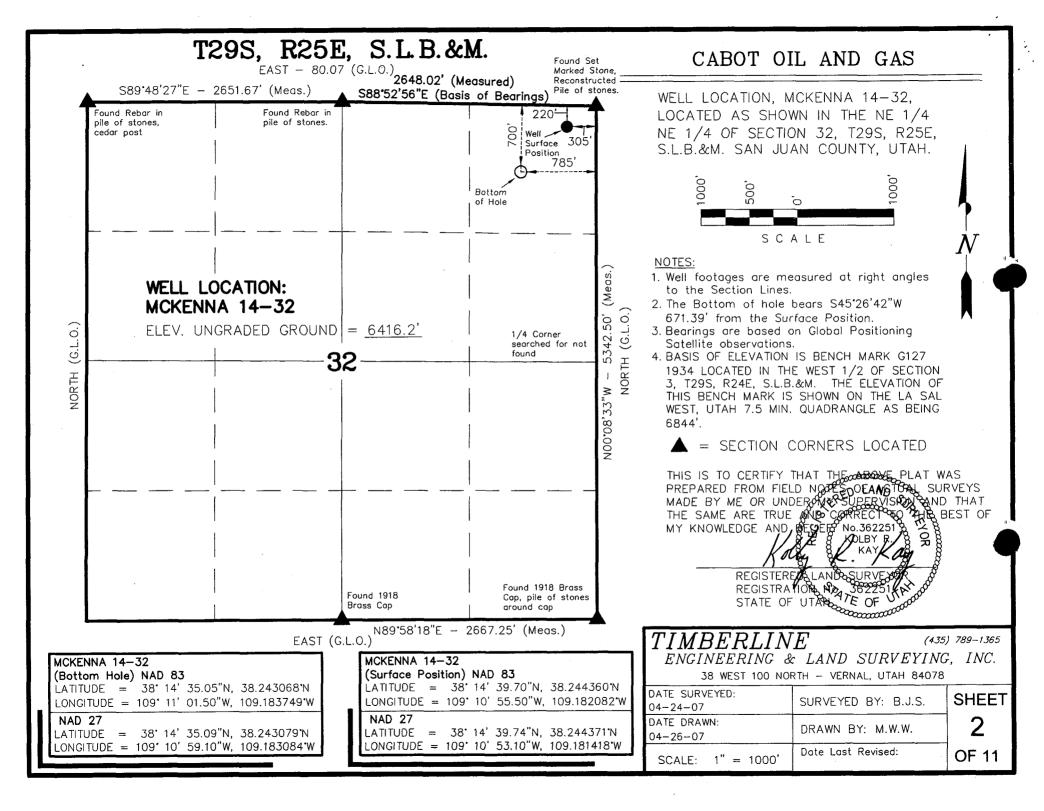
AMENDED REPORT

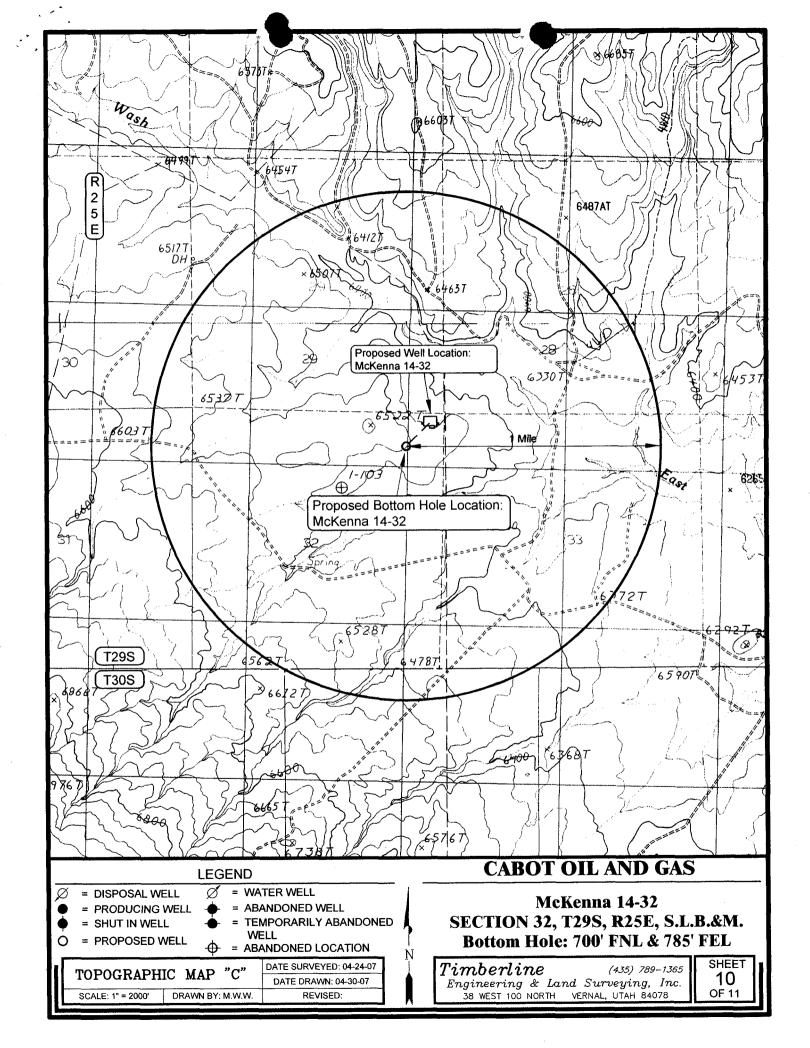


	FORM :

								(highligh	changes)
		APPLICAT	ION FOR P	ERMIT TO	O DRILL		5. MINERAL LEASE ML-48351	E NO:	6. SURFACE: State
1A. TYPE OF WO	DRK:	DRILL 🔽 🛚 F	REENTER	DEEPEN			7. IF INDIAN, ALLO	TTEE OR T	RIBE NAME:
B. TYPE OF WE	ill: OIL	GAS 🗹 C	OTHER	SIN	GLE ZONE MULTIPLE ZON	IE 🗾	8. UNIT or CA AGR	EEMENT N	AME:
2. NAME OF OPE		orporation					9. WELL NAME and		
3. ADDRESS OF	OPERATOR:				PHONE NUMBER:		McKenna 1		DCAT:
600 17th st	Suite 900	ON CHY Denve	rstate	CO 21P 80	202 (303) 868-6612 58.244324 -109.181		Wildcat		
4. LUCATION OF	220' ENI	^{зеs)}	4x 4234	128143	18.244324-109.181	329	11. QTR/QTR, SEC MERIDIAN:	TION, TOW	NSHIP, RANGE,
			& 785' FEL (059011 X 4	234133438.24301 -109.1829	3	NENE 32	298	25E
14. DISTANCE IN	MILES AND DIF	RECTION FROM NEAR	EST TOWN OR POST	OFFICE:	-104.1829	92	12. COUNTY:		13. STATE:
		from La Sal.					San Juan		UTAH
	O NEAREST PRO	OPERTY OR LEASE LIN	NE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. NI	IMBER OF ACRES A	ASSIGNED T	O THIS WELL:
220'	O NEADECT ME	LL (DRILLING, COMPLI			1,280				40 Acres
APPLIED FOR	R) ON THIS LEAS	SE (FEET)	ETED, OR	19. PROPOSED		ı	OND DESCRIPTION:		
	(SHOW WHETH	IER DF, RT, GR, ETC.)	:	22. APPROXIM	8,100 ATE DATE WORK WILL START:		09579	N.	
6,415 GR				6/30/200		1	Days	•	
24			PROPOSE	D CASING A	ND CEMENTING PROGRAM	<u> </u>			
SIZE OF HOLE	CASING SIZE	. GRADE, AND WEIGH	T PER FOOT S	ETTING DEPTH	CEMENT TYPE, QU	ANTITY,	YIELD, AND SLURRY	/ WEIGHT	
12 1/4	9 5/8	J-55	36#	2,100	Premium Lite Plus	28	2 sks	2.45cf	12.0 ppg
12 1/4	9 5/8	J-55	36#	2,100	Type III	46	0 sks	1.40cf	14.5ppg
8 3/4	5 1/2	P110	17#	8,100	Premium Lite HS	1,32	ô sks	1.76cf	13.5 ppg
25.				ATTA	CHMENTS				
VERIFY THE FOL	LOWING ARE A	TTACHED IN ACCORD	ANCE WITH THE UTA	AH OIL AND GAS C	ONSERVATION GENERAL RULES:				
WELL PL	AT OR MAP PRE	PARED BY LICENSED	SURVEYOR OR ENG	SINEER	COMPLETE DRILLING PLAN				
		OF WATER RIGHTS AF				D001101			
e criserio	2.07 277101017	J. WATER RIGHTS AF	- TROVAL FOR USE C	OF WATER	FORM 5, IF OPERATOR IS PE	—	COMPANY OTHER	THAN THE	LEASE OWNER
NAME (PLEASE I	Ginge	er Stringham			TITLE Agent				
SIGNATURE	Amo	ger Str	inghar	^	DATE 5/16/2007				
(This space for Sta	te use only)	0	O						
					•		RECEIV	'ED	
		43-037-3	10/2						
API NUMBER ASS	SIGNED:	75 05 60	1847	*	APPROVAL:		MAY 18 20	JU/	

DIV. OF OIL, GAS & MINING





From:

Brad Hill

To:

Mason, Diana

Date:

6/4/2007 3:47 PM

Subject:

Fwd: UGS comments on RDCC STA items 7992, 7793

>>> Gil Hunt 6/4/2007 3:36 PM >>>

>>> Kimm Harty 6/4/2007 3:36 PM >>>

Gil and Pam,

Below are UGS comments on RDCC Short-Turn-Around items 7923 and 7993. Please contact us if you have any questions or need clarification on the comments. Kimm

7992. Division of Oil, Gas and Mining

Short Turn Around Drilling Permit

Sec. 17, T5S, R6W, Duchesne County

Application for Permit to Drill - Berry Petroleum Company proposal to drill a wildcat well he LC Tribal 11-17-56 on Indian lease 14-20-H62-5500 (EDA)

Although there are no paleontological localities recorded in our files for this project area, the Eocene Uinta Formation that is exposed here has the potential for yielding significant vertebrate fossil localities. The office of the State Paleontologist therefore recommends that a paleontological evaluation be conducted for this project and its easements by a paleontologist with a valid permit.

7993. Division of Oil, Gas and Mining

Short Turn Around Drilling Permit

Sec. 32, T29S, R25E, San Juan County

Application for Permit to Drill - Cabot Oil and Gas Corporation proposal to drill a wildcat well the McKenna 14-32 on State lease ML-48351

Although there are no paleontological localities recorded in our files for this project area, the Jurassic Morrison Formation and Cretaceous Burro Canyon and Dakota Formations that are exposed here have the potential for yielding significant vertebrate fossil localities. The office of the State Paleontologist therefore recommends that a paleontological survey be conducted for this project and its easements by a paleontologist with a valid permit.

From:

Robert Clark Mason, Diana

To: Date:

6/4/2007 4:31 PM

Subject:

RDCC short turn-around comments

CC:

Anderson, Tad; Mcneill, Dave; Wright, Carolyn

The following comments are in response to short turn-around items RDCC #7992 and RDCC #7993.

RDCC #7992, Comments begin: The Berry Petroleum Company proposal to drill the LC Tribal 11-17-56 wildcat well on Indian lease 14-20-H62-5500 (EDA), in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

RDCC#7993, Comments begin: The Cabot Oil and Gas Corporation proposal to drill the McKenna 14-32 wildcat well, in San Juan County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm.

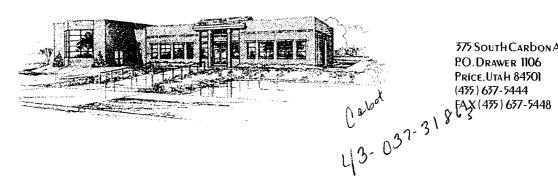
The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm. Comments end.

Robert Clark Division of Air Quality 801-536-4435

SOUTHEASTERNUTAH ASSOCIATION OF LOCAL GOVERNMENTS

Doug Allen CHAIRMAN

William D. Howell **EXECUTIVE DIRECTOR**



375 South Carbon Ave.

AREA WIDE CLEARINGHOUSE REVIEW

Federal Action	State Action	Approved	(x)Yes () No
Other (indicate)			· · · · · · · · · · · · · · · · · · ·
Applicant Address:			
Oil, Gas and Mining			•
1594 West North Temple #12	210 <i>Name</i>	Diana Mason	
SLC, UT 84114-5801	Phone Phone	801-538-5312	
Title/Project Description:	Application for Permit	to Drill McKenna	14-32 well ML-48351
Wildcat well on SITLA lease i	n San Juan County. Lo	cation is SE of t	he town of LaSal
and near East Coyote Wash.			
0			
[] No Comment			
[] See comment below	Y		
Comments: Favorable comm	ment recommended.		
PROPERTY AND ADMINISTRATION OF THE PROPERTY AND ADM			
			RECEIVED
0 1	•		JUN 2 6 2007
Lonaine Benglie	<u>U</u>	June 14, 2007	NIL OF OIL OAD S MINIMA
SEUALG		DATE	DIV. OF OIL, GAS & MINING

 $Area\,Agency\,on\,Aging\,\bullet\,Business\,Incubation\,\bullet\,Community\,Housing\,Rehabilitation\,\bullet\,Community\,Services\,\bullet\,Economic\,Development$



August 14, 2007

State of Utah Division of Oil, Gas and Mining 1594 West North Temple **Suite 1210** Salt Lake City, Utah 84114-5801

Attn: Brad Hill

Re: McKenna #21-32

Township 29 South, Range 25 East

Section 32: NE/4NW/4 San Juan County, Utah

ML-48351

Dear Mr. Hill:

Enclosed please find three (3) full copies of the Application for Permit to Drill for the McKenna #21-32 Well. Cabot Oil & Gas Corporation requests that this well be confidential and all well information/data be held confidential. Please do not hesitate to call me with any questions or comments, or if you need additional information.

via Federal Express

Very truly yours,

CABOT OIL & GAS CORPORATION

Landman

DRR/kbf

enclosures

RECEIVED AUG 1 5 2007

DIV. OF OIL, GAS & MINING

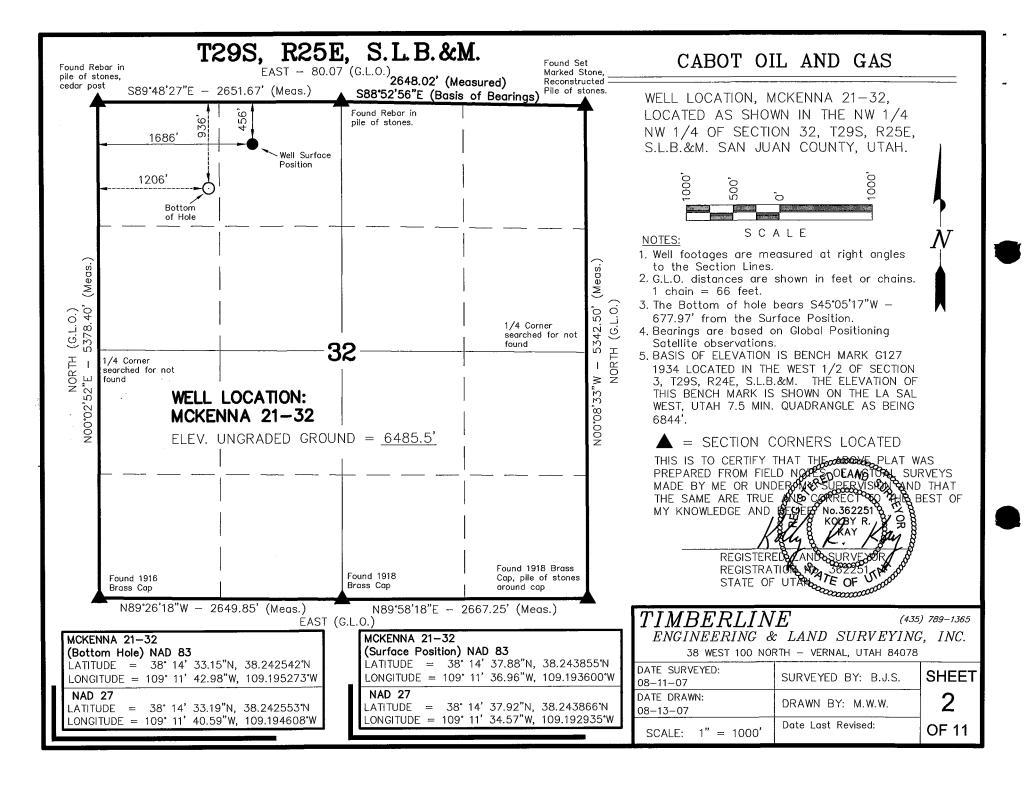
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	 			ADION OF C	JIL, GAS A	ND MINING				DED REPORT [
		APPLICAT	ION FOR	PERMIT T	O DRILL			5. MINE ML-4	RAL LEASE NO:	6. SURFACE:
1A. TYPE OF W								DIAN, ALLOTTEE OF		
B. TYPE OF WE	ELL: OIL	☐ GAS 🗹 C	THER	SI	NGLE ZONE	MULTIPLE ZO	NE 🗆	8. UNIT	OF CA AGREEMENT	NAME:
2. NAME OF OPE								9. WELL	NAME and NUMBE	LA Desar
3. ADDRESS OF	OPERATOR:					PHONE NUMBER;		McK	enna #21-32	2
600 17th S 4. LOCATION OF	t., Ste. 9	00N CITY Denver	STAT	CO ZIP 80	0202	706 -109.192)	Wilds	DAND POOL, OR W	VILDCAT:
		NL & 1686' FWL	058137X	42341934	38.243	706 -109.192	958	11. QTR/ MERII	QTR, SECTION, TO DIAN:	WNSHIP, RANGE,
AT PROPOSED	PRODUCING	g zone: 936' FNL			X 42340	0444 38.242 -109.1946		NEN	V 32 29	S 25E
		DIRECTION FROM NEARE	ST TOWN OR POS	T OFFICE:		107.1746	20	12. COUN	ITY:	13. STATE:
		ist from La Sal. PROPERTY OR LEASE LIN	F (FFFT)	16 NUMBER	5 40DE0 1111 -			San		UTAH
456'			- (· /	IO. NOMBER (OF ACRES IN LEA	^{ASE:} 1,280		JMBER OF	ACRES ASSIGNED	
18. DISTANCE TO APPLIED FOR	NEAREST V	VELL (DRILLING, COMPLE EASE (FEET)	TED, OR	19. PROPOSE	D DEPTH:	1,200		ND DESC	RIPTION:	40 Acres
NA 21 ELEVATIONS	(SHOW WHE	THER DF, RT, GR, ETC.):				7,680	586	09579		
6,483' GR		THER DF, R1, GR, E1C.):		ľ	0.000.000			STIMATED DURATION:		
				0,22,200			30	Days		
24.				D CASING A	ND CEMEN	TING PROGRAM				
SIZE OF HOLE	9-5/8	ZE, GRADE, AND WEIGHT		SETTING DEPTH		CEMENT TYPE, QU	ANTITY, Y	TELD, AND	SLURRY WEIGHT	
12 1/4	9-5/8	J-55	36#		Premium	Lite Plus	307	sks_	2.45 cf/sx	12.0 ppg
3/4	5-1/2	J-55 HCP-110	36#		Type III		549	sks	1.40 cf/sx	14.5 թթ
	0 1/2	1101-110	17#	7,680	Premium I	Lite HS	1170	sks	1.76 cf/sx	13.5 ppg
	-									
25.					CHMENTS	·	 			
		ATTACHED IN ACCORDAN			NSERVATION G	ENERAL RULES:				
		EPARED BY LICENSED SU			С сом	IPLETE DRILLING PLAN				
EVIDENCE	OF DIVISION	OF WATER RIGHTS APPI	ROVAL FOR USE O	F WATER	FORI	M 5, IF OPERATOR IS PER	RSON OR	COMPANY	OTHER THAN THE	LEASE OWNER
JAME (PLEASE PR	_{INT)} Dani	el R Rowe			TITLE	Landman				
IGNATURE	-	mad le				8/14/2007				
s space for State t	use only)				DATE					
PI NUMBER ASSIG		Y3-037-3	1843		Utah Di	ed by the vision of und Mining			RECE	EIVED

. (11/2001)

AUG 1 5 2007

DIV. OF OIL, GAS & MINING



Ten Point Plan Cabot Oil & Gas Corporation McKenna 21-32

Surface Location: NE/4 NW/4

Section 32, T29S, R25E

1. Surface Formation Alluvium

2. Estimated Formation Tops and Datum:

Depth	Sub Sea	Formation
6505 Est.		Surface
2089	4416	Wingate (Greenberg)
2312	4193	Chinle (Greenberg)
2716	3789	Moenkopi
2804	3701	Cutler
		Lower Cutler Unconformity
4240	2265	(Greenberg)
5457	1048	Honaker Trail
6629	-124	La Sal LIME (Greenberg)
6967	-462	FF#5 8884 Sand (Greenberg)
7133	-628	FF #1-19 9065 Sand (Greenberg)
7327	-822	Ismay
7461	-956	Hovenweep
7523	-1018	Ismay Lower
7588	-1083	Gothic Sh
7680'	-1175	TD

A 12-1/4"hole will be drilled to 2,400' +/-. The surface casing depth will depend on the depth that the CHINLE formation is encountered. Surface casing will be set at least 50' below top of Chinle. All fresh water and oil and gas baring zones shall be protected by casing and cement program.

3. **Producing Formation Depth:**

Formation objective includes the Honaker Trail, Ismay & Hovenweep.

Proposed Casing:

Hole Size	Casing Size	Weight/Ft	Grade	Coupling & Tread	Casing Depth	New/ Used
12-1/4	9-5/8	36#	J-55	ST&C	2,400'	NEW
8-3/4	5-1/2	17#	HCP-110	LT&C	7,680'	NEW

Cement Program:

The Surface Casing will be cemented as follows from 0'-2400'. Cement volume = Gauge hole + 100%.

Casing	Cement	Cement	Cement	Cement	Water
Size	Туре	Amount	Yield	Weight	Mix

Lead:

9-5/8"	Premium Lite Plus 307 sks +/- 2% bwoc Calcium Chloride 0.25 lbs/sx CelloFlake 6% bwoc Bentonite 1% bwoc Sodium Metasilicate	2.45ft³/sk	12.0 ppg	13.93 gal/sx
--------	---	------------	----------	--------------

Tail:

9-5/8"	Type III Cement 549 sks +/- 0.25 lbs/sx CelloFlake	1.40ft ³ /sk	14.5 ppg	6.82 gal/sx	
	1% bwoc Sodium Metasilicate				

100 sks of Type III neat cement with 2% Calcium Chloride will be available for top out of needed.

<u>Production casing will be cemented as follows from 2,200' – 7,680':</u> Cement volume – Gauge hole + 50%.

Casing	Cement	Cement	Cement	Cement	Water
Size	Туре	Amount	Yield	Weight	Mix

Lead:

5-1/2"	Premium Lite HS 1170 sks +/- 1.76t ³ /sk	13.50 ppg	8.40 gal/sx
	0.5% bwoc Static Free		3
	0.5% bwoc R-3		
	3% bwow Potassium Chloride		
	0.25 lbs/sk Cello Flake		
	2 lbs/ sk FKol Seal		
	0.4% bwoc FI-52		
	0.002 gps FP-6L		
	0.2% bwoc BA-59		

5. BOP and Pressure Containment Data:

A 5000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 9-5/8" surface casing. An upper kelly cock to the required pressure rating with a handle available shall be employed.

The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

6. Mud Program:

Interval	Mud Weight Ibs./gal	Viscosity Sec./QT.	Fluid Loss MI/30 Mins.	Mud Type
0-2,400'	8.4-8.8	40-50	No Control	Water / Gel
2,400'-5,000'	8.8-9.2	34-36	15-18	LSND/KCL
5,000'-7,680'	9.2-9.5	36-40	6-8	LSND/KCL

NOTE: Mud weights may exceed 10.0 due to solids increasing at or near T.D. Increased weights are not required to control formation pressure. Operator will have on location sufficient mud and weight material to increase mud weight to 10.0 at any time while drilling the subject well. Visual mud monitoring incorporating pit level indicators shall be used.

7. Testing, Coring, Sampling and Logging:

a) DST:	None anticipated	
b) Coring:	Sidewalls in HT #2 after T.D.	
c) Mud Sampling:	Every 10' from 1,000' to T.D.	
d) Logging:	Type	Interval
	Gamma Ray	2400'-Surface
	BHC sonic	2400'-TD
	FDC-CNL & DLL	

8. Abnormalities (including sour gas):

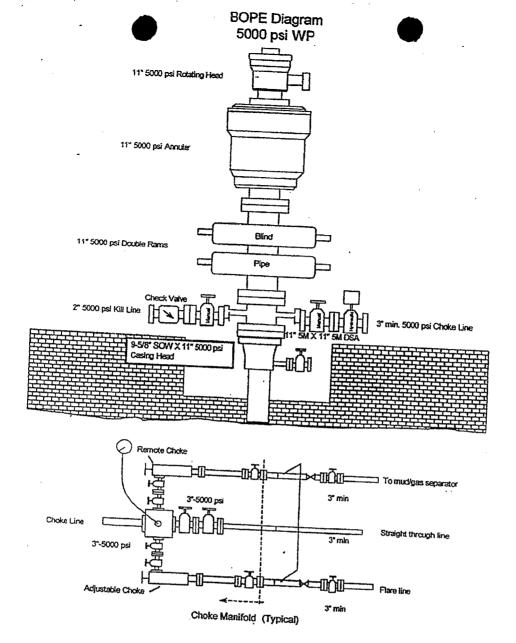
Anticipated bottom hole pressure less than 4000 psi. No abnormal pressures, temperatures or other hazards are anticipated. Other wells drilled in the area have not encountered over pressured zones or H2S.

9. Other facets of the proposed operation:

Operator anticipates the subject well will naturally drift south and west. The operator will not attempt to control the natural drift, the proposed surface location is 456' FNL & 1686' FWL, the proposed bottom hole location is 936' FNL & 1206' FWL. The estimated drift is based on previous drilling in the area and detailed geologic information.

10. Drilling Schedule:

The anticipated starting date is 8/22/07. Duration of operations is expected to be 30 days.



Cabot Oil & Gas Corporation 13 Point Surface Use Plan

For Well

McKenna 21-32

Located in NE 1/4 NW 1/4

Section 32, T29S, R25E, S.L.B. & M.

San Juan County, Utah

Lease Number: ML-48351

Surface Ownership: STATE

CABOT OIL AND GAS MCKENNA 21-32 Section 32, T29S, R25E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM LA SAL UTAH ALONG STATE HIGHWAY 46 APPROXIMATELY 0.9 MILES TO THE INTERSECTION OF COUNTY ROAD B-115. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG COUNTY ROAD B-115 APPROXIMATELY 3.1 MILES TO THE INTERSECTION OF COUNTY ROAD B-191. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY ROAD B-191 APPROXIMATELY 4.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1,775 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM LA SAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 8.4 MILES IN A SOUTHEASTERLY DIRECTION.

1. Existing Roads:

Cabot Oil & Gas Corp. McKenna 21-32 Section 32, T29S, R25E., S.L.B. & M.

PROCEED IN A WESTERLY DIRECTION FROM LA SAL UTAH ALONG STATE HIGHWAY 46 APPROXIMATELY 0.9 MILES TO THE INTERSECTION OF COUNTY ROAD B-115. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG COUNTY ROAD B-115 APPROXIMATLEY 3.1 MILES TO THE INTERSECTION OF COUNTY ROAD B-191. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY ROAD B-191 APPROXIMATELY 4.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1,775 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FORM LA SAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 8.4 MILES IN A SOUTHEASTERLY DIRECTION.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map additional details.

2. Planned access road

The proposed access road will be approximately 1,775 of new construction. The road will be graded once per year minimum and maintained.

A) Approximate length	1,775 ft
B) Right-of-Way width	30 ft
C) Running Surface	18 ft
D) Surface Material	Native soil
E) Maximum grade	8%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
l) Major cuts and fills	None
J) Road Flagged	Yes
K) Access road surface ow	/nership
	State
L) All new construction on	lease Yes
M) Pipeline crossing	None

Please see the attached location plat for additional details.

An off lease Right-of-Way will not be required for approximately.

All surface disturbances for the road and location will not be within the lease boundary.

3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

A) Producing well	None
B) Water well	None
C) Abandoned well	None
D) Temp. abandoned well	None
E) Disposal well	None
F) Drilling/Permitted well	None
G) Shut in wells	None
H) Injection well	None

I) Monitoring or observation well None

Please see the attached map for additional details:

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a color to be determined by the Authorized Officer. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

If the well is capable of economic production a surface gas line will be required.

Approximately 26,760' of 6" steel buried gas gathering line would be constructed on Federal and State Lands. The line will tie into a proposed pipeline in Section 24, T29S, R24E. The pipeline would be buried to the north and west of the location and adjacent to the access road.

An off lease Right-of-Way will be required for approximately 20,490'.

Please see the attached location diagrams for pipeline location.

5. Location and type of water supply

Water for drilling and cementing will be hauled by water truck and will come from the nearest approved water source.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. If required, additional road gravel or pit lining material will be obtained from private resources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately **12 ft.** deep and most of the depth shall be below tsurface of the exist below the surface of existing ground. Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling and for fracture stimulation during completion. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a Storage tank for a period not to exceed 90 days after initial production. During The 90-day period and application for approval for permanent disposal method And location will be submitted to the authorized officer.

Onsite evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

C) Garbage:

A commercial trash container will be used to hold trash on location and will be removed to an authorized landfill location.

D) Sewage:

Portable chemical toilets will be supplied for human waste.

E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

9. Well-site layout

Location dimensions are as follows:

A) Pad length	350 ft
B) Pad width	258 ft
C) Pit depth	12 ft
D) Pit length	100 ft
E) Pit width	50 ft
F) Max cut	4.7ft
G) Max fill	5.3ft
III Takal auk	- 0.540 4

H) Total cut yds. 3,540 cut yds
I) Pit location South end

J) Top soil location

East and West ends

K) Access road location

West end

L) Flare Pit Corner C

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Reserve pit used for drilling will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. All fence corners will be braced with an H-type brace. Within the wild horse range, the reserve pit fence shall be 48 inches high. In sheep allotments, the fence will have 48 inches of woven wire and cattle allotments will have four strands of barbed wire. Fences will be located at least four feet from the edge of pit slope.
- B) Corner pots shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- C) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- D) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

10. Plans for restoration of the surface:

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and pit area. The topsoil removed and piled will amount to approximately 1,195 cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the deadmen) will be recontoured.

Once the drilling rig moves off location, the reserve pit will be bird netted. The dirt contractor will be provided with an approved copy of the surface use plan prior to construction acitivities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled.

All disturbed areas will be re-contoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time required for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

B) Interim Seed Mix:

To be determined by the Authorized Officer.

11. Surface ownership:

Access road

State

Location

State

Pipeline

Federal & State

12. Other information:

A) Vegetation

The vegetation coverage is slight. The majority of the existing vegetation consists of Sagebrush. Rabbit brush, Bitter Brush, and Indian Rice grass are also found on the location.

B) Dwellings:

There are no dwelling or other facilities within one-mile radius of the location.

C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

D) Water

The nearest water is Coyote Wash located 1,500' +/- to the North.

E) Chemicals

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

F) Notification:

- a) Location Construction at least forty eight (48) hours prior to construction of location and access roads.
- b) Location completion prior to moving on the drilling rig.
- c) Spud notice at least twenty-four (24) hours prior to spudding the well.

- d) Casing string and cementing at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice within five (5) business days after the new well begins, or production resumes after well has been off production for more than 90 days.

G) Flare pit:

The flare pit will be located in **corner C** of reserve pit outside the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

13. Lessees or Operator's representative and certification:

A) Representative

Terry Jackson Cabot Oil & Gas 600 17th St., Ste. 900N Denver, Colorado 80202

Office:

303-226-9429

Fax:

303-226-9436

Cellular:

303-868-6612

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of a period of one year fro the date of approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which currently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by Cabot Oil & Gas and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.SC. 1001 for filing of false statement.

Self Certification Statement

The following self-certification statement is provided per Federal requirements Dated June 15, 1988.

Please be advised that Cabot Oil and Gas is considered to be the operator Of the following well:

McKenna 21-32 Section 32, T29S, R25E NE/4 of the NW/4 Lease ML-48351 San Juan County, UT

Cabot Oil and Gas is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond 5809579 provides state-wide bond coverage on all lands.

Date:

5-14-07

Name:

Daniel R. Rowe

Title:

Landman

Onsite Dates:

Statement of use of Hazardous Materials

No chemical (s) form the EPA's consolidated list of Chemicals subject to Reporting Under Title III of the Superfund Amendments and Reauthorization. Act (SARA) of 1986 will be used, will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 CFR355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

Daniel R. Rowe / Terry L. Jackson Cabot Oil and Gas Corporation 600 17th Street, Ste. 900N Denver, Colorado 80202

Office:

303-226-9400

Direct PH#:

Rowe:

Jackson:

303-226-9418 303-226-9429

Cell:

Jackson:

303-868-6612

FAX#:

303-226-4063

Dan Rowe

From:

Terry Jackson

Sent:

Monday, August 13, 2007 1:19 PM

To:

Dan Rowe

Subject: RE: McKenna #14-32

Dan:

Yes. We will plan on using the water in section 17.

Terry

----Original Message----

From: Dan Rowe

Sent: Monday, August 13, 2007 1:10 PM

To: Terry Jackson

Subject: FW: McKenna #14-32

Will this still be the case for the new location in the NW/4 of section 32, thanks, Dan

----Original Message----

From: Dan Rowe

Sent: Monday, July 30, 2007 2:52 PM

To: 'Brad Hill'
Cc: Terry Jackson

Subject: RE: McKenna #14-32

Brad, The source is a pond on Hardy Redd Ranch in Section 17 Township 29 South Range 24 East, Dan

----Original Message----

From: Brad Hill [mailto:bradhill@utah.gov] Sent: Monday, July 30, 2007 2:41 PM

To: Dan Rowe

Subject: Re: McKenna #14-32

What is the source of the water that will be trucked in?

>>> "Dan Rowe" <Dan.Rowe@cabotog.com> 7/30/2007 2:20 PM >>>

Brad,

Cabot Oil & Gas Corporation owns the offset leases to the north and east of the Proposed McKenna #14-32 location, I have enclose a map which has Cabot Oil & Gas Corporation's leases colored yellow. The water for the well will be trucked in. Thank you for your help, please do not hesitate to call with any questions or comments, Daniel R. Rowe, 303-226-9418

A. JOHN DAVIS, III
FREDERICK M. MACDONALD
ROBERT S. THOMPSON, III
ANGELA L. FRANKLINI
WILLIAM E. WARD
SHAWN T. WELCH
RELMA M. MILLERI
MATTHEW L. CROCKETTI

PRUITT GUSHEE

A PROFESSIONAL CORPORATION

48 W. Market Street, Suite 300 Salt Lake City, Utah 84101 (801) 531-8446 Fax: (801) 531-8468 Website: www.pruittgushee.com SENIOR COUNSEL:

ROBERT G. PRUITT, JR. OLIVER W. GUSHEE, JR. *

*ADMITTED IN COLORADO AND WISCONSIN ONLY

**ALSO ADMITTED IN WYOMING †ALSO ADMITTED IN COLORADO

May 30, 2007

Daniel R. Rowe, Landman Cabot Oil & Gas Corporation 600 Seventeenth Street, Suite 900 North Denver, CO 80202



DRILLING TITLE OPINION

(effective as of May 1, 2007)

Surface ownership Page (3)

Township 29 South, Range 25 East, SLM

Section 32: All Section 36: All

(containing 1,280 acres in San Juan County, Utah)

LEASE INVOLVED:

State of Utah Oil, Gas and Hydrocarbon Lease

ML-48351

Dear Mr. Rowe:

We have examined title to the oil and gas lease described above and hereby report, as of May 1, 2007 at 8:00 a.m., our opinion of title for drilling purposes.

DOCUMENTS AND RECORDS EXAMINED:

As the basis for this Drilling Title Opinion, we have examined and have solely relied upon the following documents and records:

1. Official records of the School and Institutional Trust Lands Administration ("TLA"), Salt Lake City, Utah, pertaining to the captioned lands and as contained in the lease file for the captioned lease for the period from inception to May 1, 2007 at 8:00 a.m., as compiled by GeoScout Land & Title Company, P.O. Box 11126, Salt Lake City, Utah 84147 ("GeoScout").

Cabot Oil & Gas Corporation May 30, 2007 Page 2

- 2. Official records of San Juan County Recorder, Monticello, Utah, as indexed in the abstract (tract) indices against the captioned lands for the period from inception to May 2, 2007, at 8:00 a.m., and as indexed in the Federal tax lien, financing statement and judgment indices against any party having a record interest in the captioned lands and lease during the ten (10) years as to Federal tax liens and during the five (5) years as to financing statements prior to May 2, 2007, at 8:00 a.m., as compiled by GeoScout.
- 3. Official records of the Clerk of the Seventh Judicial District Court for San Juan County, Monticello, Utah, for any judgments entered, and actions pertaining to the captioned lands and lease pending, against any party having a record interest in the captioned lands and lease for the eight (8) years prior to May 2, 2007, as compiled by GeoScout.
- 4. Official San Juan County Zoning Map and pertinent portions of the current San Juan County Zoning Ordinance.
- 5. Official records of the Utah State Office, Bureau of Land Management ("BLM"), Salt Lake City, Utah, as indexed in the historical, geographical and plat indices against the captioned lands, from the period of inception to March 26, 1965, the date of patent issuance for the captioned lands, as compiled by GeoScout.
- 6. Official records of the Utah Division of Oil, Gas and Mining, Salt Lake City, Utah, pertaining to spacing orders, applications for permits to drill, and mine plans affecting the captioned lands, and to well cards for and production history of producing wells (if any) located on the captioned lands, as of May 2, 2007, at 8:00 a.m., as compiled by GeoScout.

OPINION OF TITLE

Based upon the title evidence listed above, and subject to the Comments, Qualifications and Requirements set forth below, it is our opinion that title to the captioned lands and lease is vested, as of the stated effective date, as follows:

CAPTIONED SECTION 32

SURFACE AND MINERAL OWNERSHIP IN CAPTIONED SECTION 32:

State of Utah

Cabot Oil & Gas Corporation May 30, 2007 Page 3

(subject to TLA Metalliferous Lease ML-49583, subject to Grazing Permit GP-23169 and apparently to county road rights-of-way, see Comment 2, subject to captioned Oil, Gas and Hydrocarbon Lease ML-48351, see Comment 3)

CAPTIONED SECTION 36

SURFACE AND MINERAL OWNERSHIP IN CAPTIONED SECTION 36:

State of Utah

(subject to Grazing Permit GP-21838 and apparently to county road rights-of-way, see Comment 2, the captioned Oil, Gas and Hydrocarbon Lease ML-48351, see Comment 3)

RIGHTS UNDER STATE OF UTAH OIL, GAS AND HYDROCARBON LEASE ML-48351:

Lessor's (Royalty) Interest:

State of Utah
% Utah School and Institutional
Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

Lessee's Record Title Interest:

Cabot Oil & Gas Corporation 600 Seventeenth Street, Suite 900 North Denver, Colorado 80202

100% RT

12.5%

TIGHT HOLE - WILDCAT WELL GEOLOGICAL PROGNOSIS TIGHT HOLE - WILDCAT WELL McKenna 21-32

Well Name:	McKen	na #21-3	<u>2</u> A	\PI:	N/A	\		-	Apr	ox. Spud:	Augus	t 21, 2007
Sfc. Loc.	456'	FNL	1686'	FWL	т	298	R	25E	S	32		
Bh. Loc.	936'	FNL	1206'	FWL				*				
Field:	Wildcat - N	McKenna		County:	S	an Jua	an			State:	UT	
Deepest Obj	ective:		Isma	ау		Tota	l De	pth/F	М @) TD:	Gothic	/ 7680'
GL Elev.	6505'		Est. KE	B Elev Con	ifirm at	Rig		6520'		-	Rig	
Tool Pusher				cod	Rep					l	Cell:	<u> </u>
Geologist:	Norm Gre	eenberg	Off:	303-226-94	-08	Hor	ne:		N/A		Cell 303-	667-9824
Email:	norm.gre	enberg@	caotog.	com								
Alternate:	Simon	Cole	Off:	303-226-94	<u>55</u>	Hor	ne:		N/A		Cell 720-2	273-8281
Email:	simon	.cole@ca	botog.co	om								
Cabot Office	MAIN:	303-226-9	9400							Cabot C	Oil and Ga	s Corp.
Cabot Sinlge	Pg Fax:	303-226-4	1064							600 17t	h St., Ste.	900 N.

Confirm First EMERGENCY ONLY

Denver, CO 80202

Formation	Apprex. Leg	SS	Est. Thick	Oil/Gas	DST	Core
Sfc. Csg.	2400'	2400'				
Lwr Ctlr Unc	4240	2265				
Honaker Trail	5457	1096				
LaSal Lime	6629'	-29'	126			
HT #2	6967'	-354'	70	GAS		
HT#1	7133'	-514'	15			
Ismay	7327'	-700'	135			
Hovenweep	7461'	-829'	60			
Ismay Lower	7523'	-888'	66			
Gothic Shale	7588'	-950'	98			
TD	7680'					

303-226-4062

Offset Wells:

Continuous Fax:

API Number	Well Name	T-R-S	County / State
430373184100	Cabot McKenna #14-14	29S - 24E - 14	San Juan, CO
430373183800	Encana Middle Mesa State #36-14	29S - 24E - 36	San Juan, CO
430373185400	Encana Middle Mesa Unit #31-31	29S - 25E - 31	San Juan, CO
430373071400	C&K Pet.#7-6	30S - 25E - 06	San Juan, CO
430373183100	Bull Horn Unit #10-43	30S - 25E - 10	San Juan, CO
430373184300	Bull Horn Unit #9-14	30S - 25E - 09	San Juan, CO
430371622000	Pure Oil Big Indian #3	30S - 25E - 10	San Juan, CO
430371094200	Pubco Pet Big Indian #6	30S - 25E - 24	San Juan, CO
430371622100	Pure Oil Big Indian #4	30S - 25E - 14	San Juan, CO

General Notes:

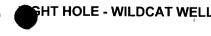
- Do not TD well in a show either at intermediate casing or at total depth CALL GEOLOGIST to consult for new TD so interval with show can be seen on open hole logs.
- IF /when having problems with equipment that will compromise gas readings in Target Zones

STOP DRILLING - PICK UP AND CIRCULATE UNTIL PROBLEM IS FIXED.

Mud logger should communicate with rig crew, tool pusher, and company man before encountering pay zones so ANY rig work, pump maintenance, etc. can be completed before drilling of pay zones.

Mudlog	ging Co:	Great Divide	Two Man Log	gging Unit O	n From (~1000') to TD.
Office:	307-362-3809	C : 307-350-0919	Logging Unit Cell:		
Mudlog	gers:			Email:	derek.hill@hotmail.com
Cell:		Cell:			

TIGHT HOLE - WILDCAT WELL EOLOGICAL PROGNOSIS OF HT HOLE - WILDCAT WELL McKenna 21-32



Samples: Yes, 10' and 20' intervals, dry cut; 5' interval or better through pay zones/shows. Examine both wet and dry samples of cuttings. Keep one good volume set of samples. Record bit sizes, mud data, dates, formation tops, etc. on mud log; send digital file and photos. Record ALL abnormal conditions - well kicking, pumps down, WOB, LCZ's, amount of LCM in mud, hole conditions before/during trip out of hole for logs (intermediate and TD), etc. Be sure to describe samples, fluor, cut, etc. under wet and dry conditions.

Catch a circulated mud sample in a clean, dry container at TD before TOOH for logs.

Keep in mud logging trailer and give to logging company when they arrive on site.

Yes - Sidewalls in HT #2 after TD Logging Company / Contact: Schlumberger / Tom Miller Office: 303-389-4439 Cell 303-548-5055 Home: 303-548-5055 tir1@denver.oilfield.slb.com Email: Logging Base: Farmington Farmington Personnel: Base Manager: Alex Albert Cell 505-330-2802 Field Sales: Bill Kelt Cell 505-330-2814 Svc Qual Coach: Roger Sitton Cell 505-215-2480

Logging Program: Ensure satellite communications are functioning after arrival on location. IF/WHEN satellite communications fail - use Mudloggers or Company Man's phone/email.

Run 1: 2,100' to Surface. Gamma Ray.

Run 2: 8,212' (TD) to 2,100' (int). Platform Express with Laterlog and BHC Sonic. Logs to be run on SS matrix.

Comments: Well should naturally drift to the southwest.

* EMAIL repeat IMMEDIATELY and directly to norm.greenberg@cabotog.com and simon.cole@cabotog.com. *

*Cut out Main Pass images and LAS from TD to <u>TBD</u> and email to Norm Greenberg and Simon Cole as soon as possible. *

Logging Specifications and Instructions:

- SEE CABOT DIGITAL LOG SET-UP FILE(s) for scales and formats [including Hi Res].
- Get circulated mud sample from MUDLOGGER. Ask Mudlogger about abnormal hole conditions.
- Tool insurance is requested.
- Document tools are within calibration specs and that shop calibrations are no older than 30 days.
- Matrix density SS .
- Insure SP surface electrode is properly placed; DO NOT place in cellar.
- Perform casing caliper checks and include on log.
- See mud logger for circulated mud sample for Rm, Rmf.
- Record abnormal conditions (well kicking, tool sticking, location of bridges, etc.) in log remarks section.
- Record pad type (Density) and Resistivity logs at no greater than 60 ft/min (3600ft/hr).
- Record image tools at no greater than 30 ft/min (1800 ft/hr); discuss image tool repeats and pad pressure with geologists.
- Record/note ALL tool/log corrections applied (i.e., barite, resolution, invasion, etc.) and the specifics of the corrections applied to each tool/curve in the log remarks section and in the LAS file remarks section.
- Run repeat logs a minimum of 400 ft.
- Present temperature in depth tract on five inch (5") logs.
- Present hole volume on all five inch (5") logs.
- Create bit size (BITS) curve in LAS file and on prints for mud cake and washouts with Caliper.
- Send preliminary LAS file after logging pay zone and final LAS with 14 digit api and uwi number in ~Well block
- DO NOT FAX LOGS.

Call Simon Cole with any questions / comments.

McKenna 21-32



Samples: Yes, 10' and 20' intervals, dry cut; 5' interval or better through pay zones/shows. Examine both wet and dry samples of cuttings. Keep one good volume set of samples. Record bit sizes, mud data, dates, formation tops, etc. on mud log; send digital file and photos. Record ALL abnormal conditions - well kicking, pumps down, WOB, LCZ's, amount of LCM in mud, hole conditions before/during trip out of hole for logs (intermediate and TD), etc. Be sure to describe samples, fluor, cut, etc. under wet and dry conditions.

Catch a circulated mud sample in a clean, dry container at TD before TOOH for logs.

Keep in mud logging trailer and give to logging company when they arrive on site.

Yes - Sidewalls in HT #2 after TD DST(s): NO Office: 303-389-4439 Schlumberger / Tom Miller Logging Company / Contact: tjr1@denver.oilfield.slb.com **Cell** 303-548-5055 Home: 303-548-5055 Email: Farmington Logging Base: **Farmington Personnel:** Cell 505-330-2802 Base Manager: Alex Albert Cell 505-330-2814 Bill Kelt Field Sales: Cell 505-215-2480

Logging Program: Ensure satellite communications are functioning after arrival on location. IF/WHEN satellite communications fail - use Mudloggers or Company Man's phone/email.

Run 1: 2.100' to Surface. Gamma Ray.

Svc Qual Coach: Roger Sitton

Run 2: 8,212' (TD) to 2,100' (int). Platform Express with Laterlog and BHC Sonic. Logs to be run on SS matrix.

Comments: Well should naturally drift to the southwest.

* EMAIL repeat IMMEDIATELY and directly to norm.greenberg@cabotog.com and simon.cole@cabotog.com. *

*Cut out Main Pass images and LAS from TD to TBD and email to Norm Greenberg and Simon Cole as soon as possible. *

Logging Specifications and Instructions:

- SEE CABOT DIGITAL LOG SET-UP FILE(s) for scales and formats [including Hi Res].
- Get circulated mud sample from MUDLOGGER. Ask Mudlogger about abnormal hole conditions.
- Tool insurance is requested.
- Document tools are within calibration specs and that shop calibrations are no older than 30 days.
- Matrix density SS
- Insure SP surface electrode is properly placed; DO NOT place in cellar.
- Perform casing caliper checks and include on log.
- See mud logger for circulated mud sample for Rm, Rmf.
- Record abnormal conditions (well kicking, tool sticking, location of bridges, etc.) in log remarks section.
- Record pad type (Density) and Resistivity logs at no greater than 60 ft/min (3600ft/hr).
- Record image tools at no greater than 30 ft/min (1800 ft/hr); discuss image tool repeats and pad pressure with geologists.
- Record/note ALL tool/log corrections applied (i.e., barite, resolution, invasion, etc.) and the specifics of the corrections applied to each tool/curve in the log remarks section and in the LAS file remarks section.
- Run repeat logs a minimum of 400 ft.
- Present temperature in depth tract on five inch (5") logs.
- Present hole volume on all five inch (5") logs.
- Create bit size (BITS) curve in LAS file and on prints for mud cake and washouts with Caliper.
- · Send preliminary LAS file after logging pay zone and final LAS with 14 digit api and uwi number in ~Well block
- DO NOT FAX LOGS.

Call Simon Cole with any questions / comments.

Form 3100-11 (October 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Serial No. UTU 79259

OFFER TO LEASE AND LEASE FOR OIL AND GAS

			READ INSTRUCTIONS B	EFORE COM	PLETING	•			
. Nama	8	Contex Energy C	Company						
Stree		1645 Court Place	e #212						
	State, Zip Code		80202						
City,	State, Zip Coor								
	at at a to Monthson	se is for: (Check only One) 🛣 I	PUBLIC DOMAIN LANDS		□ ACQU	IRED LANDS (percent U.S. interest			
		if other than BLM:			Unit/Project	MW 0			
	description of land		*Parcel No.:	*Parcel No.:		*Sale Date (m/d/y): 1X1X /9 / 200			
Lega	e process a tel telet	PRICEIONS RELOW PRIOR T	O COMPLETING PARCEL NU	MBER AND S	SALE DATE.				
		_	N # * 10	State	Utah	County Samo Juan			
T.	29 S.	K. 25 E.	Meridian SL		ULan	20 -			
			- 04	877.					
	Sec.	24: All;	Sec. 34	; A11;					
		25: A11;	Sec. 35	: All;					
		26: All;							
		27: All;							
	•					그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그			
		28: All;	1 · · · ·			新型 N 単 工			
		29: All;							
	Sec. 3	33; A11;							
						Total acres applied for 5,760.0			
		500 T5.00	Rental fee \$ 8,64	0,00		Total \$ 8,715.00			
Amo	ount remitted: Filing	fee \$	Action 100 4		-	·			
•	•		DO NOT WRITE B	TOW THIS	LINK				
	1		DO NOT WRITE D	SEC. 11 ELLE .					
		·							
). Lan	d included in lease:								
i. Lan	d included in lease:			_	F 06 3	571 B 794 P 0660			
J. Lan	d included in lease:	R.	Meridian	State	E C 6 골	5.7.1 B 794 P 0660 MAY-2001 14:45pm (6/6-2			
	d included in lease:	R.		State	E 063 Date 4-	MAY-2001 14:45pm /_/			
	d included in lease:	R.		State	LÖÜİSE C	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder			
	d included in lease:	R.		State	LOUISE C Filed By	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT OIL & GAS CORP			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT OIL & GAS CORP			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT OIL & GAS CORP			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT OIL & GAS CORP			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT OIL & GAS CORP			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 66 2 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 663 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION			
	d included in lease:	R.		State	LOUISE C Filed By For CARB	MAY-2001 14:45pm 66 2 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease			
T.		•	Meridian		LOUISE C Filed By For CARB SAN JUAN	MAY-2001 14:45pm 66 2 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$			
T.	ase is issued granting	, the exclusive right to drill for, m	Meridian ine, extract, remove and dispose of	all the oil and	LOUISE C Filed By For CARB SAN JUAN	MAY-2001 14:45pm (662) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subject			
T.	ase is issued granting	, the exclusive right to drill for, m	Meridian ine, extract, remove and dispose of	all the oil and	LOUISE C Filed By For CARB SAN JUAN	MAY-2001 14:45pm (662) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subject			
This lea	ase is issued granting intain necessary imple laws, the terms, chereafter promulgate	the exclusive right to drill for, m rovements thereupon for the term conditions, and attached stipulation d when not inconsistent with leas	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regula ons of this lease	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e.	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subjects in effect as of lease issuance, and to regulations and for			
This lea	ase is issued granting intain necessary imple laws, the terms, chereafter promulgate	the exclusive right to drill for, m rovements thereupon for the term conditions, and attached stipulation d when not inconsistent with leas	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regula ons of this lease	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e.	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subjects in effect as of lease issuance, and to regulations and for			
This lea	ase is issued granting intain necessary imple laws, the terms, chereafter promulgate: This lease is issue	the exclusive right to drill for, movements thereupon for the term conditions, and attached stipulations when not inconsistent with leased to the high bidder pursuant to	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regula ons of this lease	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e.	MAY-2001 14:45pm (662) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subject			
This lead made manapplical corders	ase is issued granting intain necessary implied laws, the terms, chereafter promulgate; This lease is issue ation and those spec	the exclusive right to drill for, m rovements thereupon for the term conditions, and attached stipulation when not inconsistent with leased to the high bidder pursuant to cified on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension in interior's regula ms of this lease mination form	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e. is submitted under 43	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subjects in effect as of lease issuance, and to regulations and for			
This lea	ase is issued granting intain necessary imple laws, the terms, chereafter promulgate: This lease is issue	the exclusive right to drill for, m rovements thereupon for the term conditions, and attached stipulation when not inconsistent with leased to the high bidder pursuant to cified on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension in interior's regula ms of this lease mination form	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e.	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subjects in effect as of lease issuance, and to regulations and for			
This leand manapplical orders	ase is issued granting intain necessary implied laws, the terms, chereafter promulgate; This lease is issue ation and those spec	the exclusive right to drill for, m rovements thereupon for the term conditions, and attached stipulation when not inconsistent with leased to the high bidder pursuant to cified on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension in interior's regula ms of this lease mination form	LOUISE C Filed By For CARB SAN JUAN gas (except helium) in in accordance with the ations and formal order e. is submitted under 43	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT OIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subjects in effect as of lease issuance, and to regulations and for			
This lea and ma applical orders NOTE nomina	ase is issued granting intain necessary implied laws, the terms, chereafter promulgate: This lease is issue ation and those special primary term of the second primary term of the seco	the exclusive right to drill for, movements thereupon for the term conditions, and attached stipulations when not inconsistent with leased to the high bidder pursuant to clifed on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension in interior's regula ms of this lease mination form	gas (except helium) in in accordance with the ations and formal order c.	MAY-2001 14:45pm (6 G) 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease Regular retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subject in effect as of lease issuance, and to regulations and for CKR 3120 and is subject to the provisions of that bld			
T. This let and ma applical orders NOTE nomina Type a	ase is issued granting intain necessary imple laws, the terms, chereafter promulgate: This lease is issue ation and those spec	the exclusive right to drill for, movements thereupon for the term conditions, and attached stipulations when not inconsistent with leased to the high bidder pursuant to clifed on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regulants of this least nination form	gas (except helium) in accordance with the ations and formal order c.	MAY-2001 14:45pm 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ appropriate leasing authority. Rights granted are subject in effect as of lease issuance, and to regulations and for CKR 3120 and is subject to the provisions of that bid ERICA BERICA			
This lea and ma applical orders NOTE nomina	ase is issued granting intain necessary implie laws, the terms, chereafter promulgate: This lease is issue ation and those special primary term of incompetitive lease (to	the exclusive right to drill for, moreovements thereupon for the term conditions, and attached stipulations when not inconsistent with least to the high bidder pursuant to clified on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regulants of this least nination form	gas (except helium) in in accordance with the ations and formal order c. submitted under 3 TED STAZES OF Chief,	MAY-2001 14:45pm 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ the lands described in Item 3 together with the right to be appropriate leasing authority. Rights granted are subject in effect as of lease issuance, and to regulations and for CKR 3120 and is subject to the provisions of that bid IBRICA MAR 2 8 2001			
This lea and ma applical orders NOTE nomina	ase is issued granting intain necessary implied laws, the terms, chereafter promulgate: This lease is issue ation and those special primary term of the second primary term of the seco	the exclusive right to drill for, moreovements thereupon for the term conditions, and attached stipulations when not inconsistent with least to the high bidder pursuant to clified on this form.	ine, extract, remove and dispose of indicated below, subject to renewa sof this lease, the Secretary of the lee rights granted or specific provision.	all the oil and i or extension interior's regulants of this least nination form	gas (except helium) in accordance with the ations and formal order c.	MAY-2001 14:45pm 22.00 Check JONES, Recorder IH OT DIL & GAS CORP COUNTY CORPORATION Total acres in lease Rental retained \$ appropriate leasing authority. Rights granted are subject in effect as of lease issuance, and to regulations and for CKR 3120 and is subject to the provisions of that bid ERICA BERICA			

STATE OF UTAH)) ss.
COUNTY OF SALT LAKE)

On this day of MAR 28 2001 , before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is the Chief, Branch of Minerals Adjudication, Bureau of Land Management, Utah State Office, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day and year first above written.

NOTARY PUBLIC
CHRISTOPHER J. MERRITT
324 South State #400
S.L.C., UT 84111
COMMISSION EXPIRES
DEC. 27, 2001
STATE OF UTAH

Notary Public

E 063571 B 794 P 0662

Form 3000-3, (January 1996)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**



ASSIGNMENT OF RECORD TITLE INTEREST IN A LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.) Act for Acquired Lands of 1947 (30 U.S.C. 351-359) Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025) Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

FORM APPROVED OMB NO. 1004-0034 Expires: September 30, 1998

Lease Serial No.

UTU79259

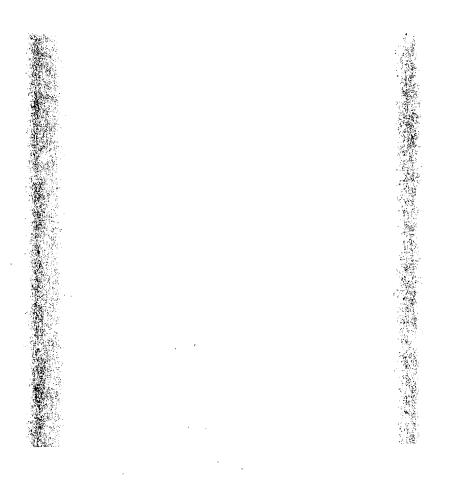
Lease Effective Date (Anniversary Date)

April 1, 2001 New Serial No.

	Type or print plainly in ink			_								
PART A: ASSIGNMENT												
Stre	cet Cabot Oil & Gas Corporation 600 Seventeenth Street, Suite 900 N Denver, CO 80202											
*If more than one assignee check here and list the name(s) and address(es) of all additional assignees on the reverse of this form or on a separate attached sheet of paper. This record title assignment is for: (Check one) X Oil and Gas Lease, or Geothermal Lease Interest conveyed: (Check one or both, as appropriate) X Record Title, Overriding Royalty, payment out of production or other similar interests or payments												
2. Thi	s assignment conveys the following interest:	D ₂	ercent of Intere	net	Percent of							
Land Description Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.			Conveyed	Retained	Overrid	ling Royalty lar Interests Previously						
	a	b	С	d	e	reserved or conveyed f						
Section Section Section Section Section Section Section Section	ISHIP 29 SOUTH, RANGE 25 EAST, SLM. 24: All 25: All 26: All 27: All 28: All 29: All 33: All 33: All 34: All 35: All 35: All	100%	100%	-0-	-0-	-0-						
	FOR BLM USE ONLY - DO NOT W		V THIS LINE									
	UNITED STATES OF signment is approved solely for administrative purposes. Approval does no this lease.		t either party	to this assign	nment holds le	gal or equitable						
LE31	signment approved for above described lands; nent approved effective 12001	Assignment approved for attached land description Assignment approved for land description indicated on reverse of this form.										
Ву	Come Jan	Mit	ing Chief, E nerals Adju		MAY 7 20	01						
	(Authorized Officer)	((Title)		(1	Date)						

(Title)

(Authorized Officer)



STATE OF UTAH) ss. COUNTY OF SALT LAKE)

On this day of MAY 7 2001, before me appeared /s/Connie J. Seare, to me personally known, who being by me duly sworn did say that JHE is the Acting Chief, Branch of Minerals Adjudication, Bureau of Land Management, Utah State Office, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that JHE acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day and year first above written.

NOTARY PUBLIC CHRISTOPHER J. MERRIT 324 South State #400 S.L.C., UT 6411: COMMISSION EXPIRES DEC. 27, 2001 STATE OF UTAH Christopher J. Mouth Notary Public & Macut Form 3000-3 (January 1996)

UNITED STATES PARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**



FORM APPROVED OMB NO. 1004-0034 Expires: September 30, 1998

Lease Serial No.

UTU79259 Lease Effective Date (Anniversary Date)

April 1, 2001 New Serial No.

ASSIGNMENT OF RECORD TITLE INTEREST IN A LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES

1V

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

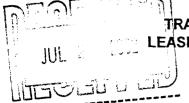
Type or print plainly in ir	k and sign	in ink.			
PART A: ASSIG	SNMENT				
1. Assignee* Cabot Oil & Gas Corporation Street 600 Seventeenth Street, Suite 900 N City, State, ZIP Code Denver, CO 80202					
*If more than one assignee check here and list the name(s) and address(a attached sheet of paper.	es) of all addition	nal assignees o	n the reverse	of this form or	on a separate
This record title assignment is for: (Check one) X Oil and Gas Lease,	or	Geothermal	Lease		
Interest conveyed: (Check one or both, as appropriate) X Record Tit		verriding Roya milar interests		out of production	on or other
2. This assignment conveys the following interest:		ercent of Intere		Pos	rcent of
Land Description Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.	Owned	Conveyed	Retained	Overrid	ling Royalty
and tollin, such declaration of agreement of the state of				Reserved	Previously reserved or conveyed
a	b	С	d	e	f
TOWNSHIP 29 SOUTH, RANGE 25 EAST, SLM. Section 24: All Section 25: All Section 26: All Section 27: All Section 28: All Section 29: All Section 33: All Section 34: All Section 35: All Containing 5,760.00 acres, more or less, in San Juan County, Utah	100%	100% Date 4- Fee: LOUISE C Filed By For CARB SAN JUAN	-0- PAY-2001 20.00 C JONES, IH OT DIL & COUNTY	-0- 14:47pm 14:47pm neck Recorder	-0- -0-
FOR BLM USE ONLY - DO NOT		W THIS LINE	1		
UNITED STATES O This assignment is approved solely for administrative purposes. Approval does title to this lease.	not warrant th				gal or equitable
Assignment approved for above described lands;	Assignme	nt approved fo	r attached land	d description	
Assignment approved effective	Assignme of this for		r land descrip	tion indicated o	on reverse
By(Authorized Officer)		(Title)		(1)	Date)

Form 3000-3a (January 1996)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB NO. 1004-0034

Expires: September 30, 1998 Lease Serial No.



TRANSFER OF OPERATING RIGHTS (SUBLEASE) IN A LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES

SEE ATTACHED

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.) Act for Acquired Lands of 1947 (30 U.S.C. 351-359)

Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025) Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

Type or print plainly in ink and sign in ink.

		PART A: TR	ANSFER				
1.	Transferee (Sublessee)* Street City, State, ZIP Code	BURLINGTON RESOURCES OIL & GAS POST OFFICE 4289 FARMINGTON, NEW MEXICO 87499	S COMPANY	LP			
attac	more than one transferee, check the check of paper. transfer is for: (Check One)	k here And list the name(s) and address(es) Oil and Gas Lease, or Geothermal Leas		nal transferees on	the reverse of	this form or on a	separate
Inter	est conveyed: (Check one or both	a, as appropriate		verriding Royalty, nterests or payment		production or other	similar
2.	This transfer (sublease) convey	s the following interest:					
		and Description		Percent of Interes			ent of
		I. Do not submit documents or agreements other than ents shall only be referenced herein.	Owned	Conveyed	Retained		ar Interests Previously reserved
`		Α	ь	с	d	e	or conveyed f
	C	TTACHED EXHIBIT "A" PRIGINAL FILED IN TU-19179		LOUISE Filed I For BUF SAN JUF E 4576 Date 5-JUF Fee: MERLENE MO Filed By F For BURLIN GRAND COUN	D JONES, S J	Recorder ESOURCES CORPORATIO SEAS P L:Cam ck corder DURCES	185 185 354358
	is transfer is approved solely e to this lease.	FOR BLM USE ONLY - DO NO THE UNITED STAT for administrative purposes. Approval does	TES OF AME	RICA		fer holds legal o	r equitable

Ву

ىزع

Transfer approve

Chief, Brench of Minerale Adjudication

JUN 7 2 2002

(Title)

(Date)

43-309

EXHIBIT "A"

Attached to and made a part of that certain Transfer of Operating Rights
between Cabot Oil & Gas Corporation, as Transferor, and Burlington Resources Oil & Gas Company LP, as Transferee

	Detween Capet on a cas conformation, as	•	-			
LEASE SERIAL NO.	LAND DESCRIPTION	INTEREST OWNED	INTEREST CONVEYED	INTEREST RETAINED	ORRI RESERVED	PREVIOUSLY RESERVED
43-305 UTU-79179 26158200	Township 21 South, Range 19 East Sec 10: SENE, SW, NESE, S2SE Sec 11: SWNW, W2SW Sec 14: W2NW, SW, S2SE Sec 15: All	100.00%	50.00%	50.00%	None	None
UTU-79180 26158500	Containing 1,400.00 acres, more or less Grand County, Utah Township 23 South, Range 21 East Sec 01: Lot 1 (19.63), 2 (19.56), 3 (19.50), 4 (19 43), S2 Sec 12: All	100.00%	50.00%	50.00%	None	None
43-307 UTU-79181 26 15 84-00	Containing 1,038.12 acres, more or less Grand County, Utah Township 23 South, Range 21 East Sec 03: Lot 1 (19.48), 2 (19.47), 3 (19.45), 4 (19.44), S2 Sec 10: All Sec 11: All	100.00%	50.00%	50.00%	None	None
43-368 UTU-79258 26156400	Containing 1,677.84 acres, more or less Grand County, Utah Township 29 South, Range 25 East Sec 08: E2 Sec 09: NWNW Sec 10: S2NE, NWSW, SESE Sec 11: N2SE Sec 13: NESW Sec 14: S2 Sec 17: SWNW, SESW, W2SE, SESE	100.00%	50.00%	50.00%	None	None

Attached to and made a part of that certain Transfer of Operating Rights between Cabot Oii & Gas Corporation, as Transferor, and Burlington Resources Oil & Gas Company LP, as Transferee **PREVIOUSLY** ORRI INTEREST INTEREST INTEREST LAND DESCRIPTION LEASE SERIAL NO. RESERVED RESERVED CONVEYED RETAINED OWNED UTU-79258 Sec 18: E2NE, NWNE (continued) Sec 19: All Sec 20: All Sec 21: All Sec 22: All Sec 23: All Containing 4,482.12 acres, more or less San Juan County, Utah *43-309* UTU-79259 None 50.00% None 50.00% 100.00% Township 29 South, Range 25 East 26158000 Sec 24: All Sec 25: All Sec 26: All Sec 27: All Sec 28: All Sec 29: All Sec 33: All Sec 34: All Sec 35: All Containing 5,760.00 acres, more or less San Juan County, Utah *43-3/0* UTU-79296 None None 50.00% 50.00% Township 29 South, Range 25 East 100.00% 26158100 ◆Sec 09: SENE, SWNW Containing 80.00 acres, more or less San Juan County, Utah

EXHIBIT "A"

STATE OF UTAH) ss.
COUNTY OF SALT LAKE)

On this day of _______, before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is the Chief, Branch of Minerals Adjudication, Bureau of Land Management, Utah State Office, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day and year first above written.

CHRISTOPHER J. MERRITT 324 South State Suite 400 Salt Lake City, UT 84111 Commission Expires December 27, 2005 STATE OF UTAH Christopher & Marit

E 457619 B 0583 P 358

£066539 B 806 P 0185-

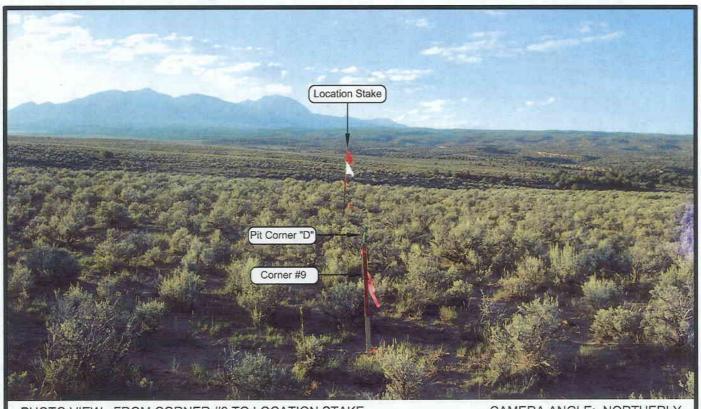


PHOTO VIEW: FROM CORNER #9 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

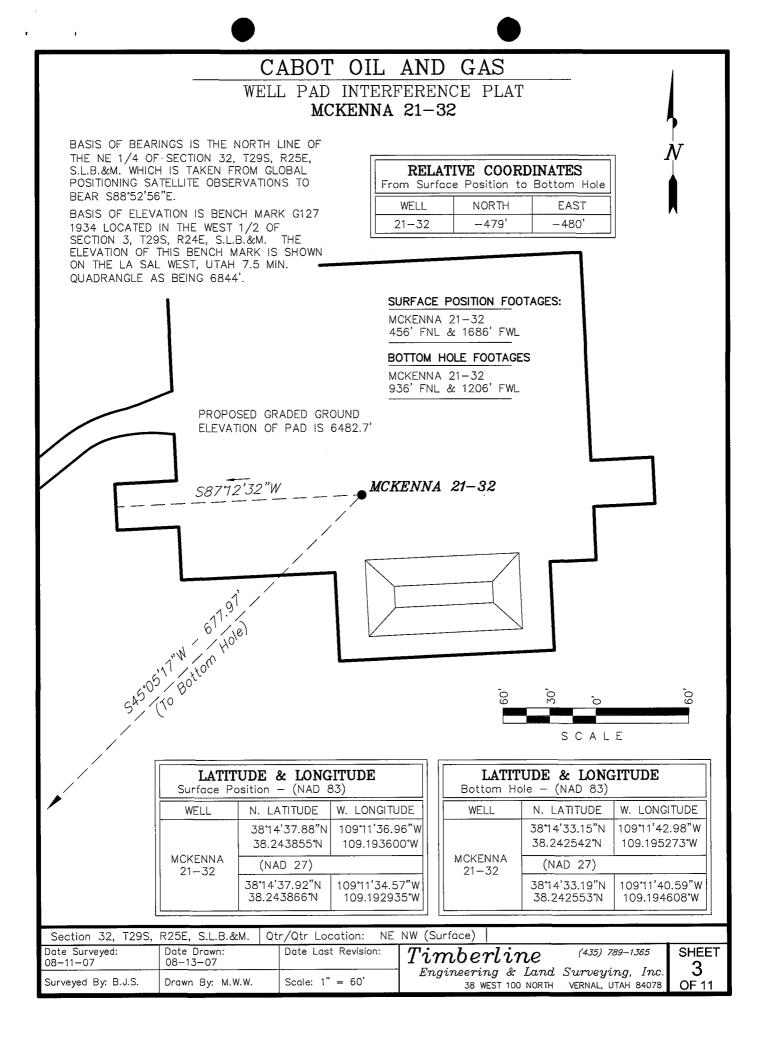
CABOT OIL AND GAS

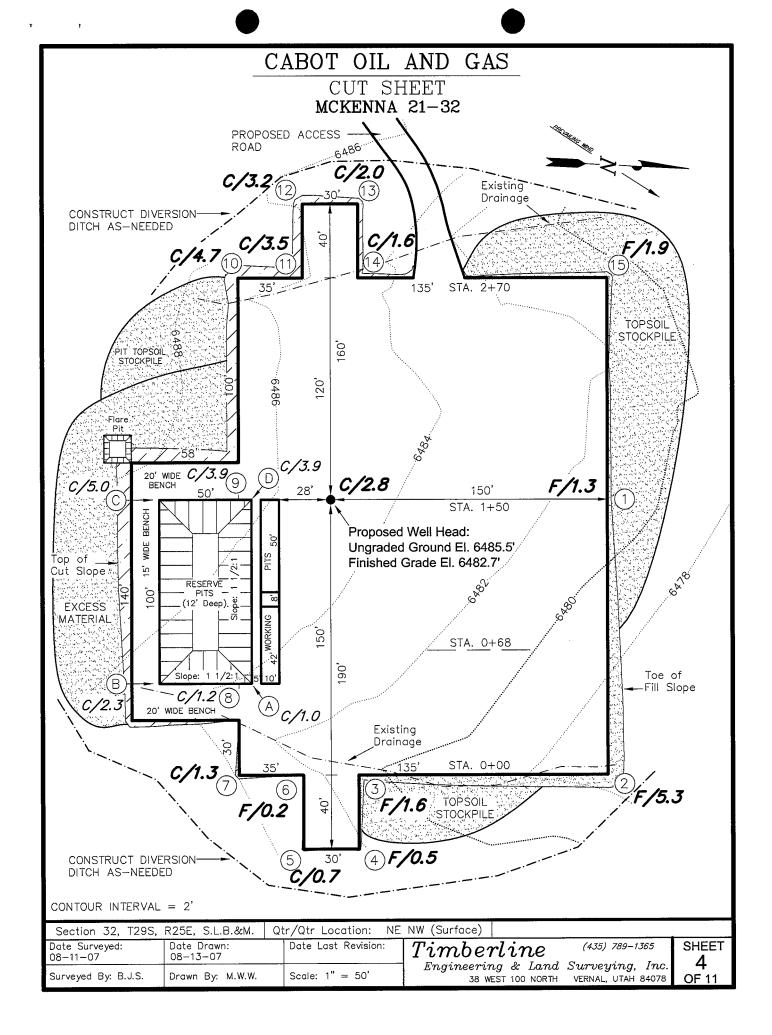
McKenna 21-32 SECTION 32, T29S, R25E, S.L.B.&M. Surface: 456' FNL & 1686' FWL

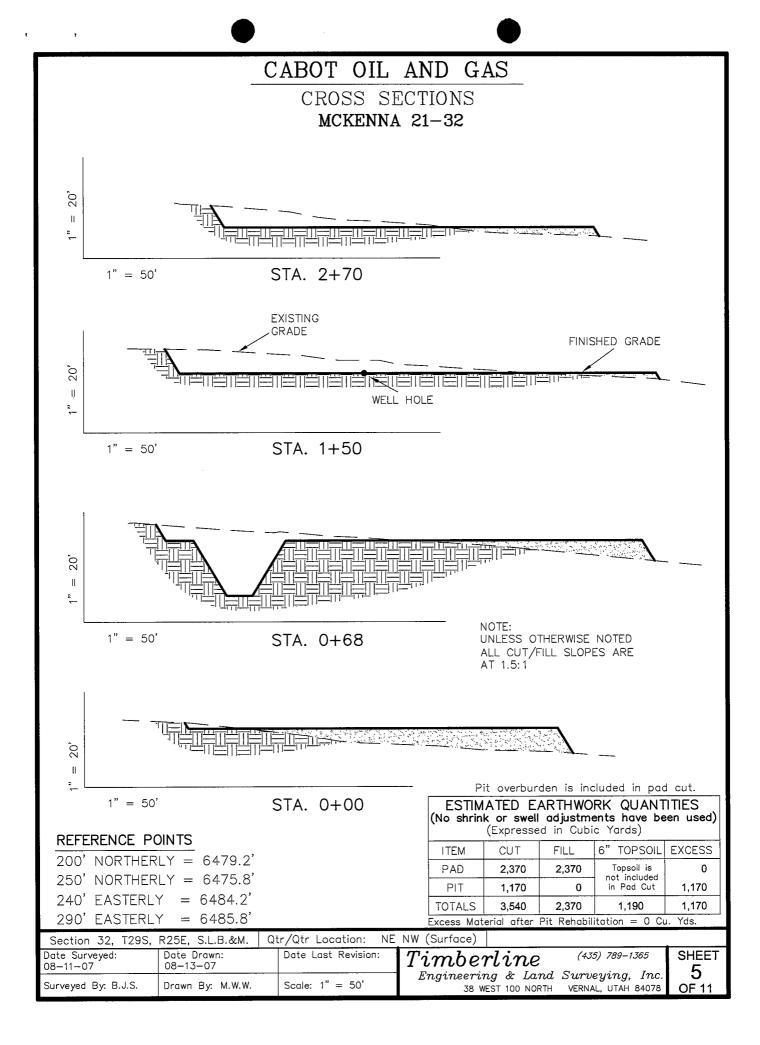
CAMERA ANGLE:	NORTHEASTERLY

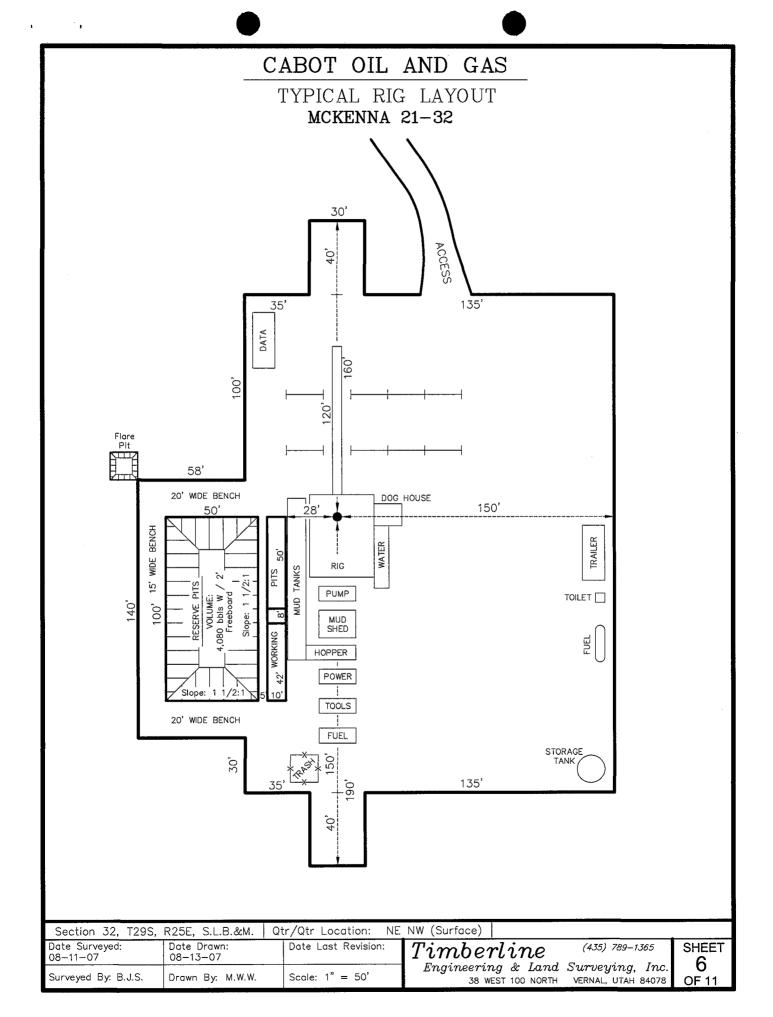
LOCATION	DHOTOS	DATE TAKEN: 08-11-07
LOCATION	FHOTOS	DATE DRAWN: 08-13-07
TAKEN BY: B.J.S.	DRAWN BY: M.W.W.	REVISED:

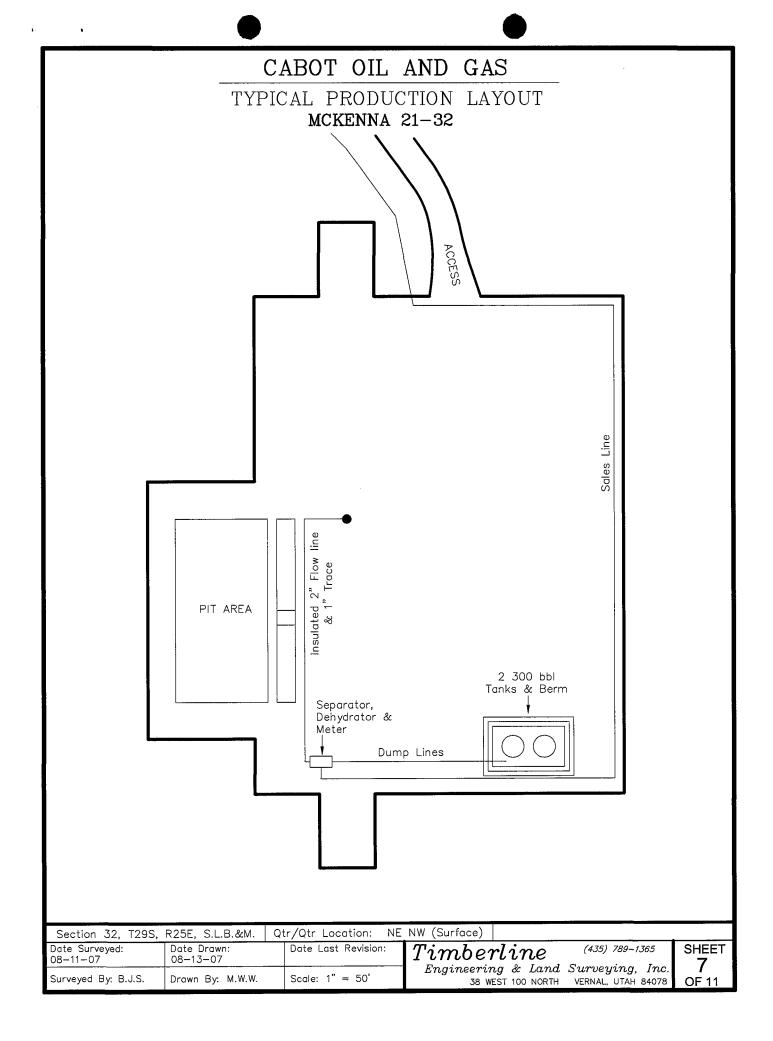
Timberline (435) 789-1365 Engineering & Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078 SHEET 1 OF 11

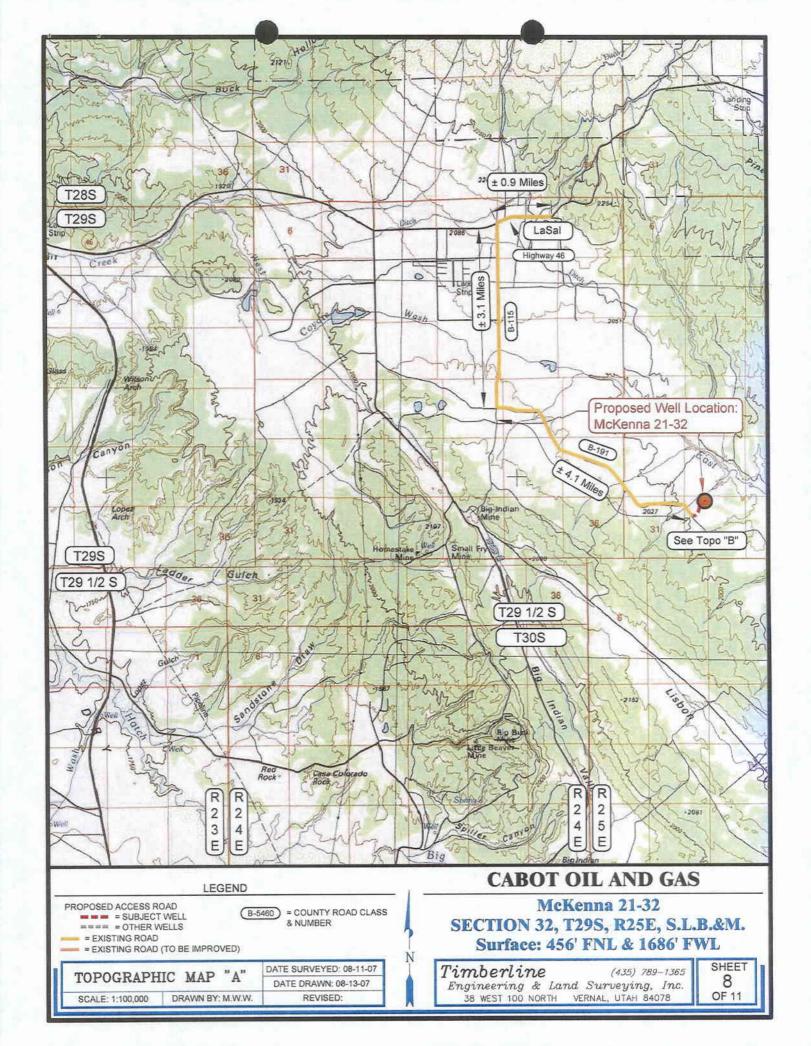


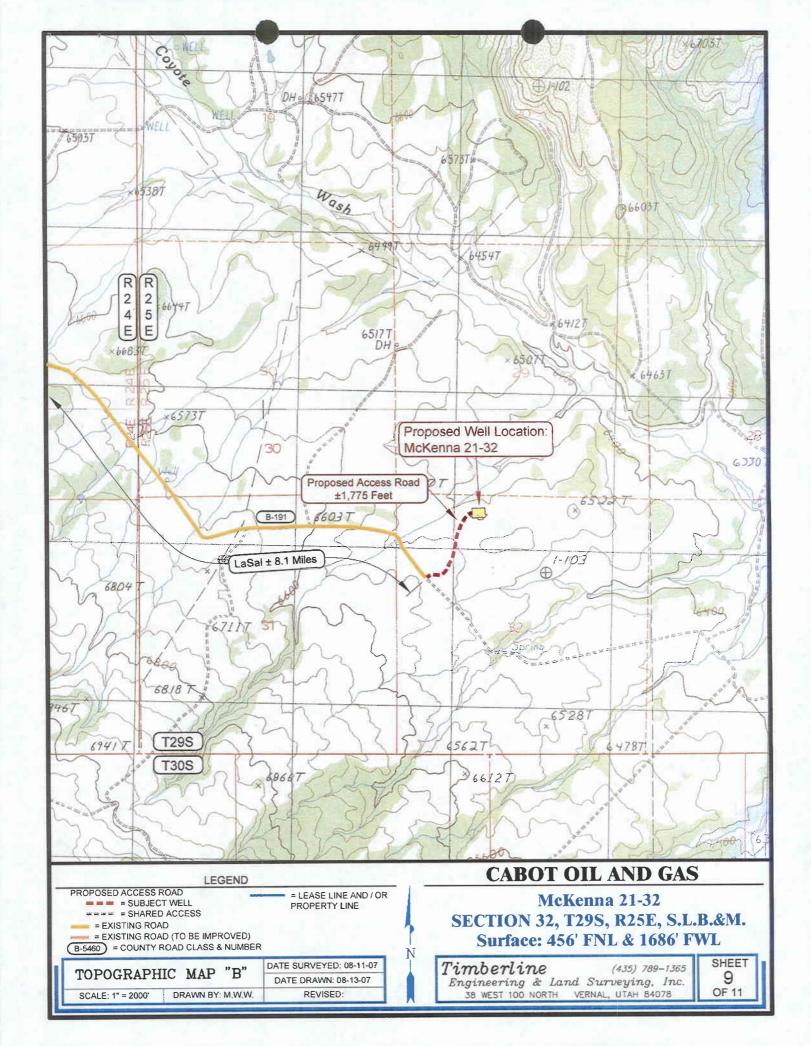


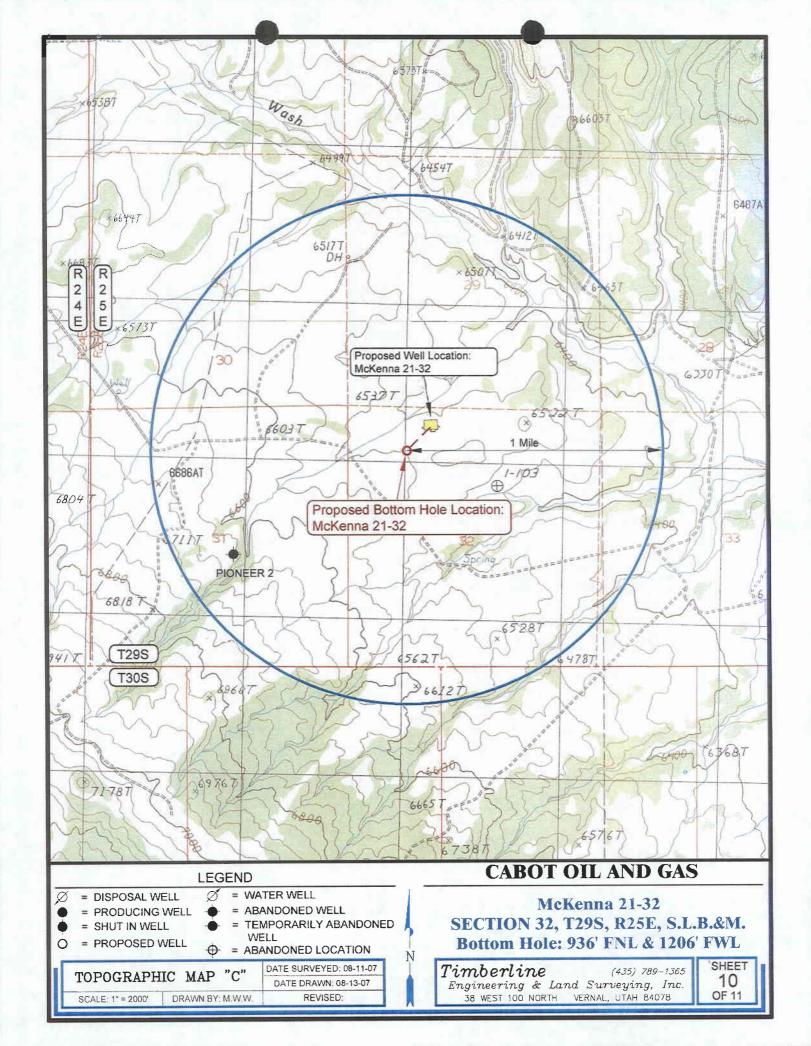


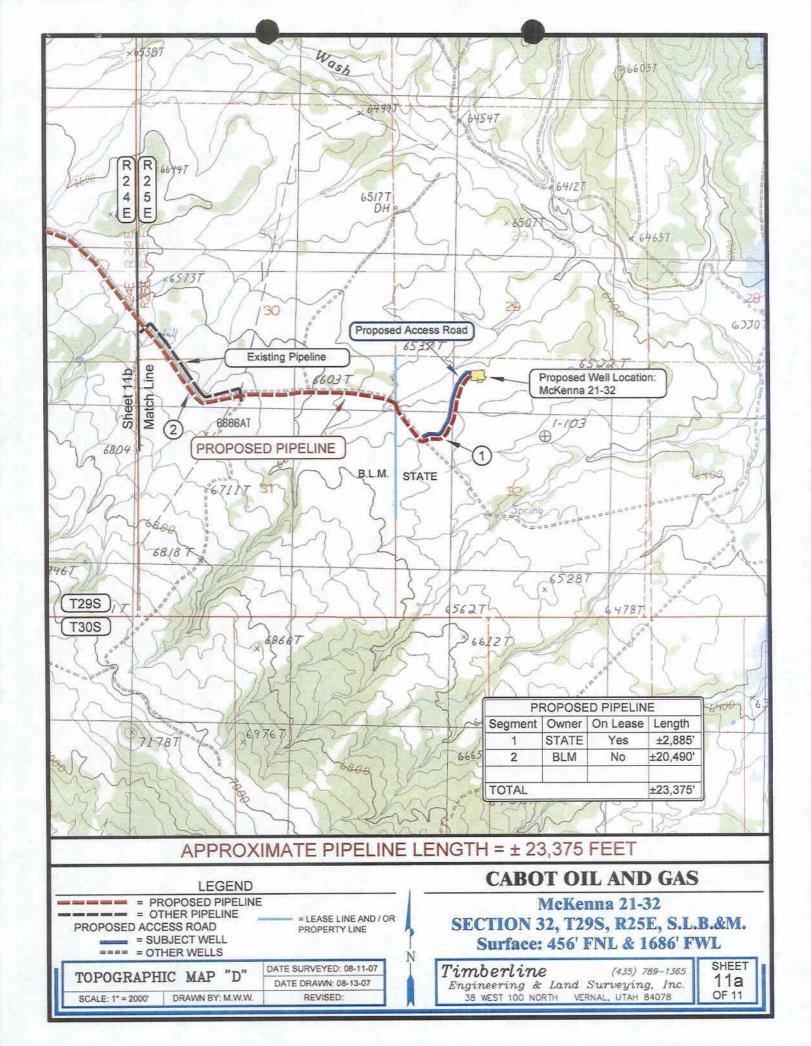


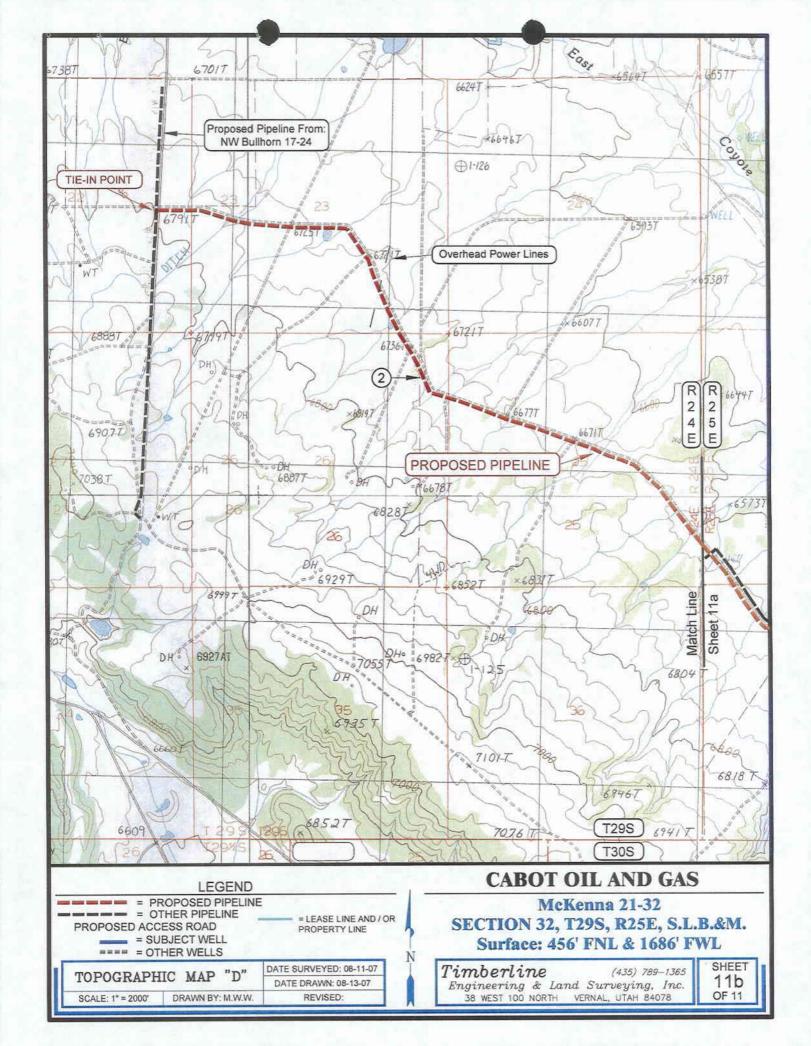




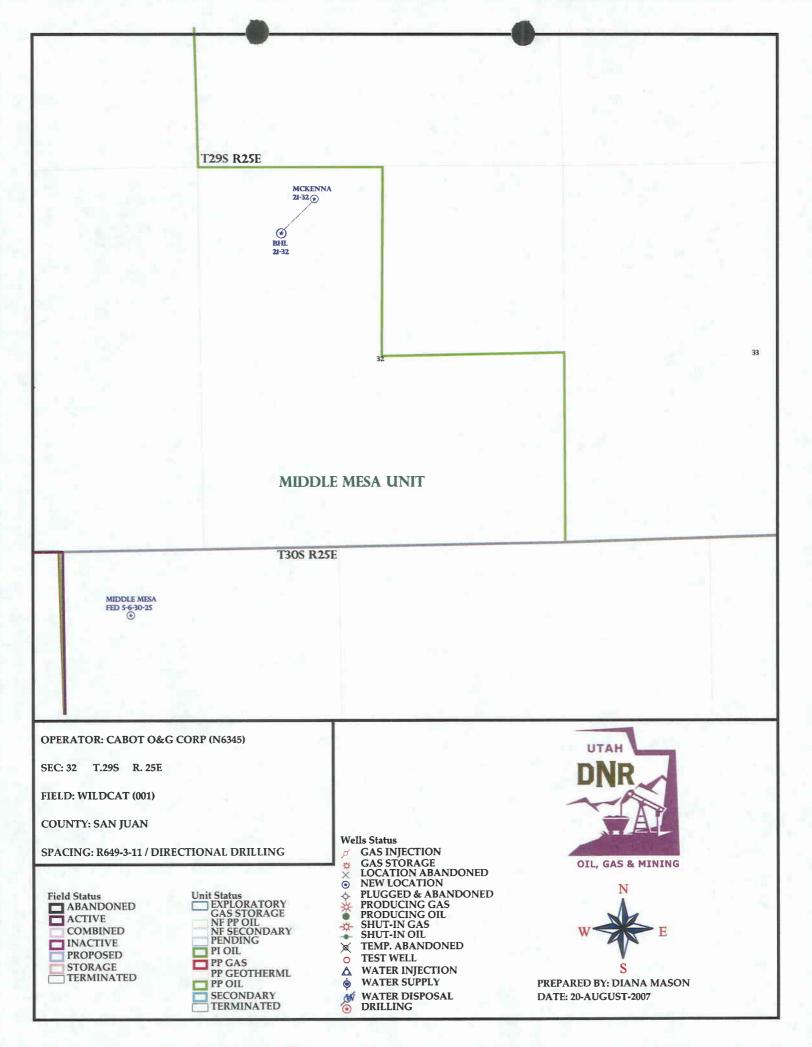








APD RECEIVED: 08/15/2007	API	NO. ASSIG	NED: 43-03	7-31863
WELL NAME: MCKENNA 21-32 OPERATOR: CABOT OIL & GAS CORP (N6345) CONTACT: GINGER STRINGHAM	PHONE	NUMBER:	303-868-661	2
PROPOSED LOCATION:	INSP	ECT LOCATN	BY: /	/
NENW 32 290S 250E	Tech	Review	Initials	Date
BOTTOM: 0456 FNL 1686 FWL	Engi	neering	DKD	8/21/03
COUNTY: SAN JUAN	Geol	ogy	7 7	0//01
LATITUDE: 38.24371 LONGITUDE: -109.1930 UTM SURF EASTINGS: 658137 NORTHINGS: 42343	Surf	ace		
FIELD NAME: WILDCAT (1 LEASE TYPE: 3 - State LEASE NUMBER: ML-48351 SURFACE OWNER: 3 - State	PROPO	OSED FORMAT BED METHANE		Y
Plat Bond: Fed[] Ind[] Sta[] Fee[] (No. RLB0008662) Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. 05-924) RDCC Review (Y/N) (Date: 06/02/2007) MA Fee Surf Agreement (Y/N) Intent to Commingle (Y/N)	Siting R649-3 Drilli Board Eff D Sitin	-3. E MESA -2. General Section of the section of t	r/Qtr & 920' E	
STIPULATIONS: 1- Spacing Comments: 2- Starten	12 (8-17.			





Utah Division of Oil, Gas and Mining

Operator

CABOT OIL & GAS CORP

Well Name

MCKENNA 14-32

API Number

43-037-31863-0

APD No 434 Tw 29S

Field/Unit WILDCAT 456 FNL 1686 FWL

Location: 1/4,1/4 NENW

GPS Coord (UTM) 659150

4234283

Sec 32

Rng 25E

Surface Owner

Participants

Bart Kettle-Division of Oil, Gas and Mining (DOGM), Ed Bonner-Trust Lands Administration (SITLA), Kyle Beagly-Division of Wildlife Resources (DWR), Ginger Stringham-Paradigm Consulting Inc. Kolby Kay-Timberline Engineering & Land Surveying Inc.

Regional/Local Setting & Topography

Project area is ~9.1 miles southeast of La Sal, San Juan County, Utah. On a regional setting the project site is located along the eastern edge of what is referred to as the Canyonlands region of the Colorado Plateau. Topography in this area is generally a series of sandy mesa's falling into steep canyons comprised of alternating layers of sandstone, shale and clays. Climate within the regions is typically arid, and associated vegetation sparse. Annual precipitation at the project site is a 12-14" zone, and vegetation would be described as pinyon/juniper and Wyoming sage rangelands. Topography immediately surrounding the project area is a series gradually sloping sandstone ridges, wide relatively flat valley floors and occasional agriculture fields. Pinyon/Juniper and Wyoming sage communities that have been chained and seeded with crested wheatgrass dominate the immediate area. Access to this well will be along existing San Juan county roads with approximately 5.180' of newly constructed access road. Drainage is to the north entering East Coyote Wash within 1,500' and the Dolores River ~15 miles away. Ground cover is moderate to low, soils are prone to erosion when vegetation is disturbed.

Surface Use Plan

Current Surface Use

Grazing

Wildlfe Habitat

New Road

Miles Well Pad **Src Const Material**

Surface Formation

1

Width 255

Length 320

Onsite

DKTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Flora

Grass: Crested wheatgrass, blue grama grass, Sandburg's blue grass, bottle brush squirrel tail, cheatgrass.

Forbs: Sego lily, globe mallow, Thurber peppergrass, scarlet gilia and golden cryptanth.

Shrubs: Wyoming sage, broom snake weed,

Trees: Utah juniper, two needle pinyon.

Fauna: Mule deer, rocky mountain elk, black bear, mountain lion, bobcat, ground squirrels, sage grouse, Rio Grande turkey's. An assortment of raptors, small mammals, song birds and small retails may frequent the project site.

Soil Type and Characteristics

Orange sandy loam alluvium, some sand stone outcrops

Erosion Issues Y

Soils erosive when disturbed

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required Y

Divert drainage on southern portions of well pad

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? Y

Reserve Pit

Site-Specific Factors		Site F	anking		
Distance to Groundwater (feet)	100 to 200		5		
Distance to Surface Water (feet)	>1000		0		
Dist. Nearest Municipal Well (ft)	>5280		0		
Distance to Other Wells (feet)	>1320		0		
Native Soil Type	High permeability		20		
Fluid Type	Fresh Water		5		
Drill Cuttings	Normal Rock		0		
Annual Precipitation (inches)	10 to 20		5		
Affected Populations	<10		0		
Presence Nearby Utility Conduits	Not Present		0		
		Final Score	35	1	Sensitivity Level

Characteristics / Requirements

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N

Other Observations / Comments

At the time of on-site evaluation cultural resource inventory had not been completed. Assortment of "chips" noted in the vicinity while accessing project site.

Bart Kettle 6/8/2007
Evaluator Date / Time

Application for Permit to Drill Statement of Basis

8/20/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No

API WellNo

Status

Well Type GW

Surf Ownr S

CBM No

434

43-037-31863-00-00

Surface Owner-APD

Operator CABOT OIL & GAS CORP Well Name MCKENNA 14-32

Unit

WILDCAT Field

Type of Work

Location

NENW 32 29S 25E S

456 FNL 1686 FWL GPS Coord (UTM) 658137E 4234193N

Geologic Statement of Basis

This location is situated on moderately permeable soil formed on the Cretaceous age Burro Canyon Formation. No underground water rights have been filed within a mile of this location. Surface pipe will be set into the upper Chinle Formation. Significant quantities of high quality groundwater may be encountered in Cretaceous and Jurassic sandstones above the surface casing setting depth. The subject well proposes to use a LSND/KCl mud system below surface casing. The subject location is near the Lisbon Valley fault system so the area may present fracture permeability and lost circulation. The proposed surface casing and cementing program should adequately isolate any zones of fresh water that may be penetrated.

Chris Kierst

6/20/2007

APD Evaluator

Date / Time

Surface Statement of Basis

On-site evaluation completed June 8, 2007. In attendance: Bart Kettle-Division of Oil, Gas and Mining (DOGM), Ed Bonner-Trust Lands Administration (SITLA), Kyle Beagly-Division of Wildlife Resources (DWR), Ginger Stringham-Paradigm Consulting Inc, Kolby Kay-Timberline Engineering & Land Surveying Inc.

Trustlands Administration (SITLA) did not express concerns or provide recommendations for stipulations. Division of Wildlife Resources (DWR) commented that project lies within designated sage grouse habitat but did not provide recommendations for mitigation. Division of Oil, Gas and Mining (DOGM) recommends drainage diversions contain rig rap and brush piles to dissipate energy of flows and control erosion. Soils at the project site are moderately erosive when disturbed, vegetative cover is not sufficient to filter runoff and prevent erosion. County roads proposed as access routes are not sufficient in design or maintenance to handle traffic typically associated with the drilling program proposed. DOGM recommends Cabot Oil and Gas Corporation coordinated with the San Juan County Roads Department to widen cattle guards sufficient to handle rig traffic. Running surface of county roads and SITLA access roads should be improved by application of water or gravel sufficient to handle rig traffic.

AMENDMENT

Due to cultural resource concerns the proposed drill site moved to the southwest a considerable distance from the original submitted Application for Permit to Drill, and therefore additional on-site evaluation was required. Proposed project area was re-visited on August 17, 2007 by Bart Kettle-Division of Oil, Gas and Mining. Soils and vegetation at updated site are similar to original site, and wildlife concerns are unchanged. Updated site will still require upgrading of cattle guards and portions of San Juan County road in order to accommodate rig traffic. As staked proposed project area still contains two drainage diversion which will require rip-rap at the outlet of diversion to prevent accelerated soil erosion due to concentrated flows.

Bart Kettle

6/8/2007

Onsite Evaluator

Date / Time

Application for Permit to Drill Statement of Basis

8/20/2007

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category

Condition

Pits

A synthetic liner with a minimum thickness of 16 mils shall be properly installed and

maintained in the reserve pit.

Surface

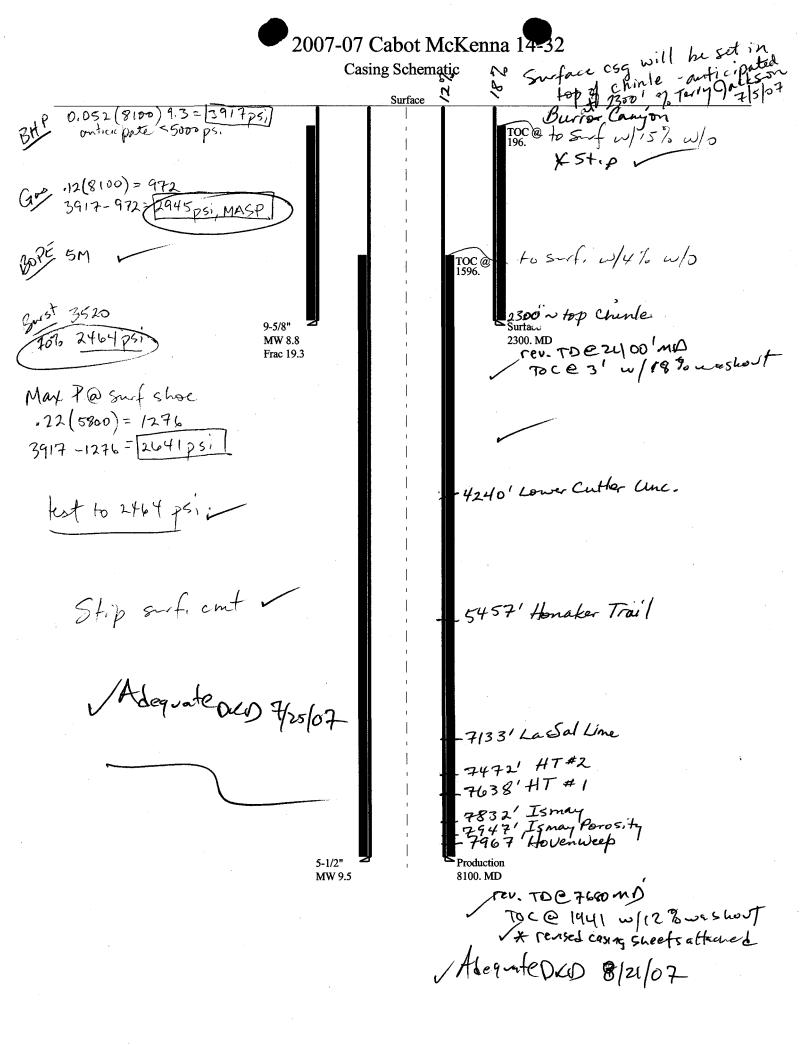
The reserve pit shall be fenced upon completion of drilling operations.

Surface

Drainages adjacent to the proposed pad shall be diverted around the location. Rip rap

and brush piles shall be used to dissipate the energy of overland water flows within

diversions.



Well name:

2007-07 Cabot McKenna 14-32rev.

Operator:

Cabot Oil & Gas Corporation

String type:

Design parameters:

Surface

Project ID: 43-037-31863

Location:

San Juan County

Minimum design factors: **Environment:**

<u>Collapse</u>

Mud weight: Design is based on evacuated pipe.

8.800 ppg

Collapse: Design factor 1.125

H2S considered?

No Surface temperature: 65 °F 99 °F Bottom hole temperature:

1.40 °F/100ft Temperature gradient: Minimum section length: 299 ft

Burst:

Design factor

1.00

Cement top:

3 ft

Burst

Max anticipated surface

pressure: 2,112 psi

Internal gradient: 0.120 psi/ft Calculated BHP 2,400 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC:

1.80 (J) 1.60 (J) **Buttress:** Premium: 1.50 (J) Body yield: 1.50 (B)

Tension is based on air weight. Neutral point: 2,087 ft Non-directional string.

Re subsequent strings:

Next setting depth: 8,100 ft Next mud weight: 9.500 ppg Next setting BHP: 3,997 psi Fracture mud wt: 19.250 ppg 2,400 ft Fracture depth:

Injection pressure: 2,400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2400	9.625	36.00	J-55	ST&C	2400	2400	8.796	1041.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1097	2020	1.841 -	2400	3520	1.47	86	` 394´	4.56 J 🖊

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Minerals by:

Phone: (801) 538-5357 FAX: (801)359-3940

Date: August 21,2007 Salt Lake City, Utah

ENGINEERING STIPULATIONS -

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

2007-07 Cabot McKenna 14-32rev.

Operator:

Cabot Oil & Gas Corporation

String type:

Production

Project ID: 43-037-31863

Location:

San Juan County

Design parameters:

Collapse

Mud weight:

9.500 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature: Temperature gradient:

173 °F 1.40 °F/100ft

Minimum section length: 1,500 ft

Burst:

Design factor

1.00

1.80 (J)

1.80 (J)

1.60 (J)

1.50 (J)

Cement top:

1,941 ft

Burst

Max anticipated surface

pressure:

2,101 psi 0.220 psi/ft

Internal gradient: Calculated BHP

3,790 psi

No backup mud specified.

Tension:

8 Round STC:

8 Round LTC: **Buttress:**

Premium:

Body yield: 1.50 (B)

Tension is based on air weight. 6,574 ft Neutral point:

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7680	5.5	17.00	HCP-110	LT&C	7680	7680	4.767	1002.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3790	8580	2.264	3790	10640	2.81 /	131	` 445´	3.41 J

Prepared

Helen Sadik-Macdonald

by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357 FAX: (801)359-3940

Date: August 21,2007 Salt Lake City, Utah

ENGINEERING STIPULATIONS -

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



August 14, 2007

Utah Trust Lands 675 East 500 South Suite 500

Salt Lake City, Utah 84102

Attn: LaVonne Garrison

State of Utah

Division of Oil, Gas and Mining

1594 West North Temple

Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

Attn: Brad Hill

Re:

Utah Oil & Gas Lease ML-48351

Utah Metalliferous Lease ML-49583 Cabot's Proposed McKenna #21-32 Township 29 South, Range 25 East

Section 32: NE/4NW/4 San Juan County, Utah

Letter Agreement for Cooperative Development

Dear Ms. Garrison and Mr. Hill:

Enclosed please find a copy of the August 14, 2007 Letter Agreement for Cooperative Development between Cabot Oil & Gas Corporation and BZU Holdings, Inc.

This letter is self explanatory and is provided in order for the state to be aware of this Agreement. If you have any questions or comments, please do not hesitate to call me at 303-226-9418.

Very truly yours,

CABOT OIL & GAS CORPORATION

Landman

DRR/kbf

enclosure

cc:

BZU Holdings, Inc.

290 Gentry Way, Suite 290

Reno, Nevada 89502 Attn: Mr. Foster Wilson RECEIVED
AUG 17 2007

DIV. OF OIL, GAS & MINING



August 14, 2007

Mr. Foster Wilson BZU Holdings, Inc. 290 Gentry Way, Suite 290 Reno, Nevada 89502

Re: Letter Agreement for Cooperative Development in Section 32, Township 29 South, Range 25 East, SLM

Dear Mr. Wilson:

Cabot Oil and Gas Corporation ("Cabot") owns State of Utah School and Institutional Trust Lands Administration ("TLA") Oil, Gas and Hydrocarbon Lease No. ML-48351 issued in 2001, covering the above-referenced lands (the "Lands"), among other lands. BZU Holdings, Inc. ("BZU") owns TLA Metalliferous Minerals Lease ML-49583, issued in 2004, which also covers the Lands. In order to avoid future potential exploration, development and production conflicts between Cabot's interests in hydrocarbons and BZU's interests in metals, each has agreed to enter into this Letter Agreement, and such future agreements as the parties may deem necessary for the effective and economic recovery of the mineral resources, subject to the respective rights of Cabot and BZU under their respective TLA leases. Cabot and BZU are sometimes herein referred to individually as a "Party" and collectively as "Parties."

I. CURRENTLY PLANNED OPERATIONS

A. <u>Cabot's Currently Planned Operations</u>.

At present, Cabot plans to drill the McKenna #21-32 Well at a surface location of 456 feet FNL, 1686 feet FWL, and a bottomhole location of 936 feet FNL, 1206 feet FWL, in the NE¼NW¼ of subject Section 32, as more fully described in its Application for Permit to Drill ("APD"), on file with the Utah Division of Oil, Gas and Mining ("DOGM"). As indicated on the plats attached to the APD, access to and from the drill site will be had via San Juan County Road No. 191 and the Cabot-constructed access road. If the McKenna #21-32 Well produces hydrocarbons, the pipeline to the well will parallel the access road and County Road No. 191. Based on its drilling results and other factors, Cabot may file additional APDs for additional well locations on the Lands.

Mr. Foster Wilson BZU Holdings, Inc. August 14, 2007 Page 2 of 5

B. BZU's Presently Planned Operations on the Lands.

BZU is not presently exploring for or extracting metals from the Lands, but is planning exploratory drilling on the Lands to test for uranium mineralization in the Cutler Formation.

II. USE RIGHTS GRANTED UNDER THE TLA LEASES

A. Cabot's Rights Granted Under ML-48351.

Section 1 of TLA lease ML-48351, grants Cabot, among other rights:

the exclusive rights of prospecting for, of mining for, of excavating, quarrying, or stripmining for and/or drilling for oil, natural gas, . . . and associated substances of whatever kind or nature . . . and producing, taking, and removing such substances from the . . . [L]ands], . . . [Cabot] to have the rights to construct and maintain on said lands all works, buildings, plants, waterways, roads, communication lines, pipelines, reservoirs, tanks, pumping stations, or other structures necessary to the full enjoyment thereof, subject, however, to the conditions hereinafter set forth.

Under Section 5(a) of ML-48351, TLA reserved the rights to permit for "joint and several use in a manner which will not unreasonably interfere with the Lessee's operations [t]hereunder," easements and rights-of-way for working other lands owned by TLA and working the Lands by other lessees and for other public purposes. Section 5(b) reserves to TLA, the right to "use, lease, sell, or otherwise dispose of the surface" of the Lands, "subject to the rights herein granted, . . . and also the right to lease mineral deposits, other than the hereby leased substances"

B. BZU's Rights Granted Under ML-49583.

Among the rights granted BZU under ML-49583, are rights to the surface estate specified by Article IV thereof:

If the surface estate of all or some portion of the hereinabove-described lands is owned by the Lessor, [BZU] shall be entitled to use reasonably and prudently such portions of the surface estate owned by Lessor as shall be reasonably necessary to explore and prospect for, mine drill, remove, and dispose of the leased mineral substances, including permission to establish and maintain in a safe condition on the surface

Mr. Foster Wilson BZU Holdings, Inc. August 14, 2007 Page 3 of 5

estate owned by Lessor, access roads, communication lines, tanks, pipelines, reservoirs, mills, processing plants, reduction works, dumps and other essential structures, facilities, machinery, and equipment, reasonably necessary and expedient for the economic operation of the leasehold and in furtherance of production, treatment, and disposition of the leased substances under this lease. Such surface uses shall be exercised subject to the rights reserved to the State of Utah as provided in Article V hereof, and without unreasonable interference with the rights of any prior or subsequent lessee of the State of Utah under the program of multiple use.

In Article V, clause First, of ML-49583, TLA reserved rights to establish easements and rights of way for joint and several uses, and for "the working of other desposits within said lands under leases granted to others " Clause Second of Article V reserves to TLA, the "right to issue mineral leases to other lessees covering minerals not included in this lease, under such terms and conditions which will not unreasonably interfere with operations under this lease in accordance with the principle of multiple use provided by law."

III. AGREEMENT TO COOPERATE

In consideration of the premises, the value gained by Cabot and BZU by agreeing to cooperate in developing their mineral interests in the Lands, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree:

- A. In conducting their respective operations on the Lands, Cabot and BZU shall give due regard to the legal rights of the other Party and shall proceed in a manner so far as reasonably possible, designed to cause the least harm, damage and interference with the rights of the other Party under their respective TLA leases so as to enable both Cabot and BZU to maximize the return from their respective leases and act to avoid damage to the other's mineral interests in the Lands.
- B. Cabot and BZU have conferred regarding the location and construction of the McKenna #21-32 Well and its related facilities and roads. BZU has no objection to the drilling and production of the McKenna #21-32 Well as described herein, and as may from time to time be altered by Cabot.
- C. BZU has requested that it be allowed access to Cabot's gamma ray log of the McKenna #21-32 Well for use in BZU's evaluation of the Lands. Cabot agrees to provide BZU one copy of its gamma ray log from the surface to the base of the Cutler

Mr. Foster Wilson BZU Holdings, Inc. August 14, 2007 Page 4 of 5

formation for the McKenna #21-32 Well, subject to the confidentiality provisions stated below.

- D. BZU agrees that if its use of Cabot's access road for the McKenna #21-32 Well is more than occasional, that it will jointly maintain that access road and share the maintenance expense in proportion to its use. Any improvement to the McKenna #21-32 access road required by virtue of BZU's use, will be borne by BZU, and shall not impede or interfere with Cabot's access to the wellsite. Cabot has no duty to maintain the McKenna #21-32 Well access road for BZU's use.
- E. So that Cabot and BZU may to continue to cooperate in developing their respective mineral interests in the Lands, both agree that prior to submitting any notice, plan of operation, exploration or mining plan, APD, sundry notice or similar application to DOGM and/or TLA, it will contact the other Party, providing a copy of any such application, so that the other Party can determine whether the planned development may conflict with the its development rights. The non-developing Party shall have fifteen (15) days from the date of receiving copies of a proposed development in which to notify the developing Party of a mineral development conflict or to communicate its non-objection to the developing Party. If the non-developing Party fails to give notice of a conflict within said fifteen (15) day period, it shall be deemed and considered to have waived its right to object to such development. In the event one Party notifies the other of such a conflict, the Parties will in good faith, as necessary, attempt to develop additional agreement(s) to further define their cooperation in regard to any particular development(s) that conflicts with a Party's mineral rights in the Lands. In the event Cabot and BZU are unable to voluntarily resolve any mineral development conflict regarding the Lands, each shall have resort to the TLA, the Utah Board of Oil, Gas and Mining, and, if and as applicable, to court.
- F. This Letter Agreement is not intended to, nor shall it be interpreted to, create a joint venture, partnership, mining partnership or any other relationship between the Parties.
- G. Any and all information including without limitation, development plans, applications, drilling logs and surveys, exchanged by Cabot and BZU shall remain and be kept confidential and may not be disclosed to a third party without the non-disclosing Party's prior written consent. Cabot and BZU agree that each shall only use such data in connection with their own respective geologic exploration and delineation of mineral deposits within the lands.

Mr. Foster Wilson BZU Holdings, Inc. August 14, 2007 Page 5 of 5

- H. This Letter Agreement shall be binding upon the Parties and their respective successors and assigns.
- I. This Letter Agreement may be executed in counterparts and shall be deemed effective by facsimile receipt of the signatures of the Parties.
- J. This Letter Agreement shall be deemed effective as of July 16, 2007, and shall remain in effect for such period of time as both of the Parties' respective TLA leases remain in effect as to the Lands.
- K. Either Party may, at its own cost and expense, record a copy of this Letter Agreement of a notice thereof in the records of San Juan County, Utah.
- L. Each Party represents and warrants that the individual executing this Letter Agreement on its behalf is authorized to do so and has the authority to bind the Party to the obligations, agreements and covenants set forth herein.

If BZU is in agreement with the foregoing, please so indicate be returning an executed original of this Letter Agreement.

Very truly yours,

Daniel R. Rowe

CABOT OIL & GAS CORPORATION

Accepted and agreed to by BZU Holdings, Inc., this _____ day of ______, 2007.

By:_____

Mr. Foster Wilson BZU Holdings, Inc. August 14, 2007 Page 5 of 5

- This Letter Agreement shall be binding upon the Parties and their respective successors and assigns.
- This Letter Agreement may be executed in counterparts and shall be deemed effective by facsimile receipt of the signatures of the Parties.
- This Letter Agreement shall be deemed effective as of July 16, 2007, and J. shall remain in effect for such period of time as both of the Partics' respective TLA leases remain in effect as to the Lands.
- Either Party may, at its own cost and expense, record a copy of this Letter Agreement of a notice thereof in the records of San Juan County, Utah.
- Each Party represents and warrants that the individual executing this Letter Agreement on its behalf is authorized to do so and has the authority to bind the Party to the obligations, agreements and covenants set forth herein.

If BZU is in agreement with the foregoing, please so indicate be returning an executed original of this Letter Agreement.

Very truly yours,

CABOT OIL & GAS CORPORATION

Daniel R. Rowe

Landman

Accepted and agreed to by BZU Holdings, Inc., this 13 day of August 2007.

By:

From:

"Sally Sullivan" <sally.geoscout@sisna.com>
"Diana Mason" <dianawhitney@utah.gov>

To: Date:

8/20/2007 1:31 PM

Subject:

ML-48351

Dear Ms. Mason.

Dan Rowe of Cabot Oil has asked that I provide evidence to you that ML-48351, located in Section 32 of T29S-R25E-SLM, is not committed to the Middle Mesa Unit.

I have attached copies of the following showing this:

- 1) Serial register page for lease from SITLA showing this lease is not committed.
- 2) Exhibit B from the Middle Mesa Unit file from the BLM. The adjudicators indicate on the page (EC = effectiviely committed; FC = fully committed and NC = not committed.) Said lease is tract No. 21 and has an NC next to it.
- 3) Letter from the BLM, dated 11/17/05 to Encana Oil & Gas indicating that tract 21 along with some other tracts is uncommitted to the Middel Mesa Unit.

If you require further information showing this lease is not committed to the Middle Mesa Unit, let me know and I can provide it.

If you have any questions, please let me know. You can reach me at the numbers below. Thank you for your attention to this matter.

Sally Sullivan

GeoScout Land & Title Company

48 West Market Street; Suite 200

Salt Lake City, Utah 84101

(801)364-7773

direct (801)433-5364

fax (801)364-7775

CONFIDENTIAL: This email contains confidential information. If you have received it in error, please delete it from your system. Thank you.

School and Institutional Trust Lands Administration Contract Serial Register Page For ML 48351.0

8/20/2007

Type of Lease	: 0	IL GAS	& HYDROCARBON Application Description	on Number: N on:	L	48351.	
Applicant:	CAB	OT OIL 8	& GAS CORPORATION				
Date Accepted	ł:			Status: Acti	e contract	i.	
Date Approved Date Cancelled			2/2001 2/0000	Term 10 Start Date: 10	years 0/01/2001	End Date:	09/30/2011
Participant Li	ist						
Interest Type RECORD TITLE INITIAL RECOR	1 :	LE					
			CABOT OIL & GAS CORPORATION	Lessee	Int	erest:	100.00
2			ATTN: DANIEL R ROWE 600 17TH STREET,	SUITE 900N, DENVI	ER, CO U	SA 80202	
			Total Inte	erest for interest type	1		100.00
Interest Type	11 CUTS		2255 CLD9M CCC 22. BURNA C2 AON AC				
			125E, SLB&M., SEC 32: NW4, S2 480 AC CABOT OIL & GAS CORPORATION	Lessee	Int	erest:	50.00
			ATTN: DANIEL R ROWE 600 17TH STREET,	SUITE 900N, DENVE	ER, CO U	SA 80202	
0							
COMPANY (CID:	25723	BURLINGTON RESOURCES OIL & : PO BOX 4289, FARMINGTON, NM USA 8749	Lessee 99	Int	erest:	50.00
0							
			Total Inte	rest for Interest type	11		100.00
Interest Type	21						
		-	125E, SLB&M., SEC 32: NE4; SEC 36: ALL. 800 AC BURLINGTON RESOURCES OIL & PO BOX 4289, FARMINGTON, NM USA 874:	Lessee 99	1ni	erest:	50.00
0							
COMPANY C	CID:	26038	CABOT OIL & GAS CORPORATION ATTN: DANIEL R ROWE 600 17TH STREET,	Lessee SUITE 900N, DENVE		erest: SA 80202	37.50
0							
COMPANY (CID:	28465	HAT CREEK ENERGY LLC 3875 CHERRY CREEK DRIVE NORTH, DENV	Lessee /ER. CO USA 80209		erest:	12.50
0				•			
-			Total Inte	rest for interest type	21		100.00
Description o	of Lar	nd:					
TRS	Cou	nty S	ec Description	Bene	Туре	Layer	Acres
T29S R25E SL			All	900	llaa	O&G	640.0
		Juan 32		SCH	Use		
	San .	Juan 36	ALL	SCH	Use	O&G	640.0
					To	tal Acres:	1,280.0

Date Printed: 8/20/2007 Page 1 of 2

School and Institutional Trust Lands Administration Contract Serial Register Page For ML 48351.0

8/20/2007

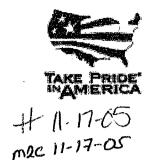
Billing Parameters: Billing Type	Billing Frequency	Payment Due Date	Amt Per Unit	Nbr Of Units	Amount Billed	Billing Notice Flag	Manual Comp Flag
repare billing	Annually	10/01/2007	1.00	1,280	1,280.00	No billing printed	No
Beneficiary interes	t:						
Revenue Ty	oe Basis o	f Computation	n	Beneficiary	Percent	Acres	
0	Acres			School	100.00	1,280.00	
				Total:	100.00	1280.00	
· · · · · · · · · · · · · · · · · · ·			<u></u>				
Comments:							
Date							
11/28/2001							
	Burlington Resources	s Oil & Gas Co	mpany LP by	y Gary Butler; no o	rr		•
02/06/2002	Cabot Oil & Gas Con	noration by Pre	dinaton Door	ourose Oil & Gae C	omnany i D.	no orr	
	t in operating rights to						no orr
01/06/2006	in operating ngmo to	Capot on a ot	ao oompany	by Burmigion 1100			
Middle	Mesa Unit approved I	by BLM 11/17/0	05 - lease is	not committed to u	nit Primary	term remains 🏻 🚜	
						••	-
05/04/2007	int in operating rights					DA44 000 00	- to that Occal

Page 2 of 2



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov



IN REPLY REFER TO 3180 UT-922

November 17, 2005

EnCana Oil & Gas (USA) Inc. c/o UnitSource Incorporated 11184 Huron Street, Suite 16 Denver, Colorado 80234

Gentlemen:

The Middle Mesa Unit Agreement, San Juan County, Utah was approved on November 17, 2005. This agreement has been designated No. UTU82680X and is effective November 17, 2005. A copy of the agreement is enclosed.

This unit provides for the drilling of one obligation well and subsequent drilling obligations pursuant to Section 9 of the unit agreement. The initial well is to be drilled to a depth of 7,500 feet or a depth sufficient to test 50 feet into the Paradox Salt and located in the NE¼ of Section 36, Township 29 South, Range 24 East, SLM&B, San Juan County, Utah. No extension of time beyond May 17, 2006, will be granted to commence the "obligation well" other than "unavoidable delay" (Section 25), where justified.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

The basic information is as follows:

- 1. The depth of the test well and the area to be unitized were approved under the unit plan regulations of December 22, 1950, by Bureau of Land Management letter dated June 13, 2005.
- All formations are unitized.
- 3. The unit area embraces 9,794.25 acres, more or less, of which 8,075.14 acres (82.45 percent) are Federal lands and 1,719.11 acres (17.55 percent) are State lands.

The following leases embrace lands included within the unit area:

UTU014905*	UTU73190**	UTU77076*	UTU77539*
UTU089097*	UTU76053*	UTU77077*	UTU78735*
UTU16575*	UTU76327	UTU77078**	UTU80058
UTU16576*	UTU76335	UTU77372	UTU84063**
UTU16577	UTU76776	UTU77538*	

^{*} Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

All lands and interests are fully/effectively committed except Tracts 6, 13, 19B and 21 totaling 1,120.16 acres (11.44 percent), which is not committed. Also, certain overriding royalty interest owners have not signed the unit agreement.

Unleased Federal land, Tract 19A, totaling 120.00 acres (1.23 percent), is not committed, but is considered to be effectively controlled acreage because, prior to issuance of leases for the acreage, the lessee(s) may be required to commit to the unit agreement.

In view of the foregoing commitment status, effective control of operations within the unit area is assured. We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement.

Sincerely.

/s/ David H. Murphy

David H. Murphy Acting Chief, Branch of Fluid Minerals

Enclosure

bcc:

Dockets w/enclosure

Division of Oil, Gas and Mining Trust Lands Administration

Field Manager - Moab w/enclosure

MMS - Data Management Division (Attn: James Sykes)

File - Middle Mesa Unit w/enclosure

Agr. Sec. Chron Reading Chron Central Files

UT922:TAThompson:tt:11/17/05

^{**} Indicates non-committed lease.

EXHIBIT."B" SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS MIDDLE MESA UNIT AREA SAN JUAN COUNTY, UTAH

TRACT NO.	DESCRIPTION OF LAND	OF	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECOP AND PERCENTAGE	RD	OVERRIDING ROYALTY AND PERCENTAGE		WORKING INTERE AND PERCENTAGE	1
	T29S-R24E, S.L.M. Sec. 27: NE/4, E/2NW/4, NW/4NW/4, N/2SE/4 SE/4SE/4	932.55 400.00	U-014905 U. Effective 5-1-1955	.S.A All (12.5% royalty)	EnCana Oil & Gas (USA)	100.00%	As to all lands and all depths: H.A. Jacobs Estate Mary A. Woolley Paul Slayton Roland Rich Woolley Trust	5.00% Inv 1.50% 0.50% 0.50% 7.50%	Cana Oil & Gas (USA) c.	100.00%
			НВР				TOTAL Production Payment equal to \$15,000,000,000; Paid at 5%: Paul Slayton	5.00%		
			٠				Production Payment equal to \$30,000,00: Paid at 1.5%: El Paso National Bank Co-independent Executor Sam D. Young and Martin N. Lettunich dba Tornillo	0.750%		
							Farms H.A. Jacobs Estate Clifton Whyburn TOTAL	0.375% 0.375% 1.50%		
							From the Surface to the Base of the Paradox Salt Formation: Union Oil Company of California Exxon Mobil Oil Corporation	5.00% 0.50%		
			VEXE(LEGEND IFIRMED BY BLM RECOI CUTED UNIT AGR. CUTED UNIT OPR. AGR. BIBLE FOR SEGREGATIO			TOTAL From said depth and below: Exxon Mobil Oil Corporation	5.50% 0.375%	·	
									11/1	5/2005

. 1

11/15/2005

			SERIAL NUMBER	BASIC ROYALTY	LESSEE OF RECO	RD	OVERRIDING ROYALT	Y WORKING INTEREST AND
TRAC'	T DESCRIPTION OF LAND	OF ACRES	& EXPIRATION DATE OF LEASE	AND PERCENTAGE	AND PERCENTAGE		AND PERCENTAGE	PERCENTAGE
C 2.	T30S-R25E, S.L.M. Sec. 11: E/2	1760 320.00	24216	U.S.A Ali (12.5% royalty)	EnCana Oil & Gas (USA)	100.00%	Roland Rich Woolley Estate Ernest L Hodges Ned Nickson Joseph Richard Nickson Virginia Nickson Beers Alice S. Woolley TOTAL	1.5000% EnCana Oil & Gas (USA) 100.00% 1.3330% Inc. 0.5557% 0.5557% 0.5556% 0.5000% -
							Production Payment equal to \$15,000,000.00:	5.00%
⟨° 3.	<u>T29S-R25E, S.L.M.</u> Sec. 31: Lots 1, 2, 3, E/2W/2	350.43 280.40	Effective 10-1-1971	U.S.A All (12.5% royalty)	Meagher Oil & Gas Properties, Inc.	100.00%	Meagher Oil & Gas Properties, Inc.	7.50% EnCana Oil & Gas (USA) 62.50% Inc. 18.75% Harry H. Cullen 18.75% TOTAL 100.00%
<u>1</u> €4.	T30S-R25E, S.L.M. Sec. 3: Lots 13, 14, 15, 16, 17, 18, 19, 20, 21, 2: 23, 24, 25, 26, 27, 2 Sec. 4: Lots 5, 6, 9, 10, 11, 13, 14, 15, 16, 17, 14, 19, 20, 21, 22, 23, 23 Sec. 5: Lots 1, 2, 3, 6, 7, 8, 10, 11, 13, 14, 15, 18, 19, 20 Sec. 6: Lots 17, 18	28 12, 8, 5, 26		U.S.A All (12.5% royalty)	Meagher Oil & Gas Properties, Inc.		Meagher Oii & Gas Properties, Inc. Kenneth T. Smith Trust The Davis Family Revocable Trust Orley Prather Gwendolyn S. Sides TOTAL	Below 6,180' Encana OH6 (USA) 100 70 3.50% From the surface of the earth (SCC 15 10 6,180': 1.75% Financial Color (SCC 15) 1.75% Financial Color (SCC 15) 1.75% From the surface of the earth (SCC 15)
	MIDDLE MESA UNIT AREA				2			Sec 3. Surface to 6.180 November 37.5% November 2590 Rioner 2590 Relaw 6.180 Volence 10070

DESCRIPTION OF LAND	OF	& EXPIRATION	AND	LESSEE OF RECOR AND PERCENTAGE	D	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTEREST AND PERCENTAGE	
<u>T30S-R25E, S.L.M.</u> Sec. 5: Lots 21, 22, 23, 24, 26, 27, 28 Sec. 6: Lot 4	339.48	U-16577 Effective 10-1-1971 HBP	U.S.A All (12.5% royalty)	Meagher Oil & Gas Properties, Inc.	100.00%	Meagher Oil & Gas Properties, Inc. Marvin L. McGahey R.K. Cramer R.K. O'Connell & Vula O'Connell TOTAL	1.50% FinCana Oil & Gas (USA) 1.50% Inc. 1.00% Harry H. Cullen Pioneer Oil and Gas	43.7 5 -62.50% 37.55% 18.75% 100.00%
							From said depth and below: EnCana Oil & Gas (USA) Inc.	100.00%
T30S-R25E, S.L.M. Sec. 3: N/2SW/4, SE/4 Sec. 4: Lot 24 Sec. 10: NE/4NE/4	78.63 520.00	U-73190 Effective 0-1-1994	U.S.A All (12.5% royalty)	✓Cabot Oil & Gas Corporation	100.00%	None	Cabot Oil & Gas Corporation	100.00%
Sec. 11: NW/4, NE/4SW/4								
<u>T29S-R24E, S.L.M.</u> Sec. 25: Lots 3, 4, SW/4, W/3 Sec. 26: SE/4	480.59	Q U-76053 Effective 1-1-1997	U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA) Inc.	100.00%	f The Davis Family Revocable Trust Kenneth T. Smith Trust Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) Inc. 2.25% 1.00% 5.50%	100.00%
	T30S-R25E, S.L.M. Sec. 5: Lots 21, 22, 23, 24, 28, 27, 28 Sec. 6: Lot 4 T30S-R25E, S.L.M. Sec. 3: N/2SW/4, SE/4 Sec. 4: Lot 24 Sec. 10: NE/4NE/4 Sec. 11: NW/4, NE/4SW/4 T29S-R24E, S.L.M. Sec. 25: Lots 3, 4, SW/4, W/4	DESCRIPTION OF ACRES 13-53-5 130S-R25E, S.L.M. 339.48 Sec. 5: Lots 21, 22, 23, 24, 25, 28, 27, 28 Sec. 6: Lot 4 130S-R25E, S.L.M. 520.00 T30S-R25E, S.L.M. 520.00 Sec. 3: N/2SW/4, SE/4 Sec. 4: Lot 24 Sec. 10: NE/4NE/4 Sec. 11: NW/4, NE/4SW/4 129S-R24E, S.L.M. 480.59 Sec. 25: Lots 3, 4, SW/4, W/2SE/4	DESCRIPTION OF LAND OTHERS OTHE	DESCRIPTION OF LAND ACRES DATE OF LEASE PERCENTAGE 358.5 339.48	DESCRIPTION OF & EXPIRATION ACRES DATE OF LEASE PERCENTAGE 25.5 5 5 5 5 5 5 5 5 5	DESCRIPTION OF ACRES DATE OF LEASE PERCENTAGE 258.5	DESCRIPTION OF & EXPIRATION AND PERCENTAGE AND PERCENTAGE AND PERCENTAGE PERCENTAGE PERCENTAGE AND PERCENTAGE PERCENTAGE PERCENTAGE 1.3.5.5.6.7.2.5.5.6.7.2.5.7.	DESCRIPTION OF & EXPIRATION AND AND AND AND OF & EXPIRATION AND AND OF & EXPIRATION AND OF AND OF AND OF AND OF OF OF OF OF OF OF O

3

TRACT	DESCRIPTION OF LAND	OF	SERIAL NUMBER & EXPIRATION DATE OF LEASE	AND	LESSEE OF RECOF AND PERCENTAGE	D	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTERES AND PERCENTAGE	T
8.	<u>T29S-R24E, S.L.M.</u> Sec. 25: Lots 1, 2, W/2NE/4	√ 160.28	U-76327 Effective 5-1-1997 Expires 4-30-2007	U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA)	100.00%	Kenneth T. Smith Trust The Davis Family Revocable Trust Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) 2.25% Inc. 1.00% 5.50%	100.00%
●	<u>T29S-R25E, S.L.M.</u> Sec. 31: SE/4	√ 160.00	U-76335 Effective 6-1-1997 Expires 5-31-2007	U.S.A All (12.5% royalty)	VEnCana Oil & Gas (USA) Inc.	100.00%	Kenneth T. Smith Trust The Davis Family Revocable Frust Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) 2.25% Inc. 1.00% 5.50%	100.00%
Ç 10.	<u>T30S-R25E, S.L.M.</u> Sec. 4: Lots 7, 8	√ 80.00	U-76776 Effective √0-1-1997 Expires 9-30-2007	U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA)	100.00%	None	EnCana Oil & Gas (USA) Inc.	100.00%
1 11.	<u>T29S-R24E, S.L.M.</u> Sec. 21: NE/4SW/4, SE/4 Sec. 22: SW/4	1971.3 ^C 360.00	U-77076 Effective 4-1-1998 Expires 3-31-2008	U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA) Inc.	100.00%	Medallion Exploration	6.50% EnCana Oil & Gas (USA) Inc.	100.00%

TRACT	DESCRIPTION OF LAND	OF	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECOR AND PERCENTAGE	D OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTEREST AND PERCENTAGE	
Ç12.	T29S-R24E, S.L.M. Sec. 26: SW/4 Sec. 35: N/2NW/4, SE/4NW NE/4, N/2SE/4, SE		U-77077 Effective 4-1-1998 Expires 3-31-2008	U.S.A All (12.5% royalty)	ÆnCana Oil & Gas (USA) Inc.	100.00% The Kenneth Taylor Smith Trust The Davis Family Revocable Trust Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) 100. Inc. 2.25% 1.00% 5.50%	0.00%
13.	T29½S-R24E, S.L.M. Sec. 25: Lots 1, 2	1539.52 40.16	U-77078 Effective 4-1-1998 Expires 3-31-2008	U.S.A All (12.5% royalty)	Gulf Exploration LLC	100,00% Gulf Production Corp.	Inc. VGulf Exploration LLC 20 Crow Creek Energy LLC 10	0.00% 0.00% 0.00% 0.00%
√ ^{14.}	T29S-R25E, S.L.M. Sec. 31: NE/4NE/4	V 40.00	U-77372 Effective 9-1-1998 Expires 8-31-2008	U.S.A Ali (12.5% royalty) .	EnCana Oil & Gas (USA) Inc.	100.00% a The Kenneth Taylor Smith Trust The Davis Family Revocable Prust Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) 100 Inc. 2.25% 1.00% 5.50%	0.00%
15.	T29S-R24E, S.L.M. Sec. 23: S/2 Sec. 24: S/2 Sec. 25: NW/4 Sec. 26: N/2	1440 1,120.00	U-77538 Effective 10-1-1998 Expires 9-30-2008	U.S.A All (12.5% royalty)	v€nCana Oil & Gas (USA) Inc.	100.00% √The Kenneth Taylor Smith Trust √The Davis Family Revocable √Trust √Sinclair Oil Corporation TOTAL	2.25% EnCana Oil & Gas (USA) 100 Inc. 2.25% 1.00% 5.50%	00.00%

TRACT NO.	DESCRIPTION OF LAND	OF	SERIAL NUMBER & EXPIRATION DATE OF LEASE	AND	LESSEE OF RECO AND PERCENTAGE	RD	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTERES AND PERCENTAGE	ST .
Y	T29S-R25E, S.L.M. Sec. 30: Lots 1, 2, 3, 4, E/2W/. SE/4 Sec. 31: W/2NE/4, SE/4NE/4	つU32 601.32 2,		U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA)	100.00%	The Kenneth Taylor Smith Trust The Davis Family Revocable Trust Sinclair Oil Corporation TOTAL	2.25% FinCana Oil & Gas (USA) Inc. 2.25% 1.00% 5.50%	100.00%
Y	T30S-R25E, S.L.M. Sec. 3: Lots 3, 4, 5, 6, 9, 10, 11, 12 Sec. 4: Lots 1, 2, 3, 4	471.68 353.73	U-78735 Effective 1-1-2000	U.S.A All (12.5% royalty)	VEnCana Oil & Gas (USA) ínc.	100.00%	o None	VICEnCana Oil & Gas (USA) Inc.	100.00%
	T29S-R24E, S.L.M. Sec. 22: NW/4SE/4	√ 40.00	Expires 12-31-2009 U-80058 Effective 5-1-2002 Expires 4-30-2012	U.S.A All (12.5% royalty)	EnCana Oil & Gas (USA) Inc.	100.00%	o None	EnCana Oil & Gas (USA)	100.00%
19/A	<u>T29S-R24E, S.L.M.</u> Sec. 22: E/2SE/4, SW/4SE/4	120 200:00		U.S.A All (12.5% royalty)	Unleased	100.00%	6 None	Unleased	100.00%
1019B	T30S-R25E, S.L.M. Sec. 5: Lots 16, 17	80	U-84063	31-2015	Maranar Co.	100°	0	Meraman (o.	1007
19	FEDERAL TRACTS	TOTALING			82.45% OF UNIT AREA				

TRACT NO.	DESCRIPTION OF LAND	OF	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALT AND PERCENTAGE	Y	LESSEE OF RECORI AND PERCENTAGE)	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTERES AND PERCENTAGE	
£20.	STATE LANDS: T29S-R24E, S.L.M. Sec. 36: Lots 1, 2, 3, W/2E/2, W/2	599.11	Effective 9-10-1979	e of Utah – All 5% Royalty)		EnCana Oil & Gas (USA)	100.00%	None	EnCana Oil & Gas (USA)	100.00%
€ \$\frac{1}{2}	<u>T29S-R25E, S.L.M.</u> Sec. 32: W/2, SE/4	480.00	HBP ML-48351 State (12.8 Effective 10-1-2001	e of Utah – All 5% Royalty)		Cabot Oil & Gas Corporation	100.00%	None	Cabot Oil & Gas Corporation Burlington Resources Oil & Gas Company LLC TOTAL	50.f 50.00%
y 22.	T30S-R25E, S.L.M. Sec. 2: Lots 19, 20, 21, 22, 2 26, 27, 28, S/2	640.00 25,	Expires 9-30-2011 ML-48609 State (12.8 Effective 12-1-2000 Expires 11-30-2010	e of Utah All 5% Royalty)		EnCana Oil & Gas (USA)	100.00%	Kenneth K. Farmer	6.00% EnCana Oil & Gas (USA) Inc.	100.00%
•	STATE TRACTS	TOTALING	1,719.11	ACRES OR	17.55%	OF UNIT AREA				
22	TRACTS	TOTALING	9,794.25 IN	N UNIT AREA						

From: Ed Bonner
To: Mason, Diana
Date: 8/20/2007 3:07 PM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Cabot Oil & Gas Corporation

McKenna 21-32 (API 43 037 31863)

Kerr McGee Oil & Gas Onshore LP

NBU 1022-13K4S (API 43 047 39473)

NBU 1022-13I3S (API 43 047 39474)

NBU 1022-13135 (API 43 047 39474)

NBU 1022-1301CS (API 43 047 39476)

NBU 1022-13J4S (API 43 047 39477)

NBU 1022-1301AS (API 43 047 39478)

NBU 1022-1302S (API 43 047 39479)

NBU 1022-13O4S (API 43 047 39480)

NBU 1022-13K3S (API 43 047 39481)

NBU 1023-13M1S (API 43 047 39482)

NBU 1022-13M2AS (API 43 047 39483)

NBU 1022-13N1S (API 43 047 39484)

NBU 1022-13L3S (API 43 047 39485)

NBU 1022-13L4S (API 43 047 39486)

NBU 1022-13N2S (API 43 047 39487)

NBU 1022-13M2SC (API 43 047 39488)

NBU 1022-13K-3T (API 43 047 39489)

Petro-Canada Resources (USA), Inc

State 16-41 (API 43 015 30721)

State 32-44 (API 43 015 30722)

Royale Energy, Inc

Vernal Equinox 2-2 (API 43 019 31552)

XTO Energy, Inc

State of Utah 16-8-31-13 (API 43 015 30719)

State of Utah 16-8-31-33D (API 43 015 30718)

If you have any questions regarding this matter please give me a call.



August 20, 2007

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining

Attn: Brad Hill, Diane Mason

Re:

McKenna #21-32

Township 29 South, Range 25 East

Section 32: 456' FNL, 1686' FWL (Surface)

936' FNL, 1206' FWL (BHL)

San Juan County, Utah

Dear Ms. Mason & Mr. Hill:

Cabot Oil & Gas Corporation (Cabot) submits this letter pursuant to Oil & Gas Conservation Rule R649-3-11 pertaining to Exception to Location and Siting of Wells.

Cabot Oil & Gas Corporation has submitted an Application for Permit to Drill for the McKenna #21-32 Well. The location of the surface and expected location of the bottom hole is captioned above and shown on the Timberline Engineering and Land Surveying, Inc. plat enclosed.

Cabot plans to allow the well to naturally drift to the southwest of the surface location to bottom hole approximately 936' from the north line and 1206' from the west line of Section 32, Township 29 South, Range 25 East.

The McKenna #21-32 will be drilled on State of Utah surface and minerals covered by Oil and Gas Lease ML-48351. Cabot Oil & Gas Corporation, 600 17th Street, Suite 900 North, Denver, Colorado 80202 will be Operator of this wildcat well.

A Map titled McKenna Area shows that Cabot owns the lease to the north of the proposed McKenna #21-32 Well.

The deviation is requested as it is the most economical manner to reach this bottom hole from the surface location cleared by independent archeologists.

Cabot Oil & Gas Corporation respectfully requests that the permit be granted pursuant to R649-3-11.

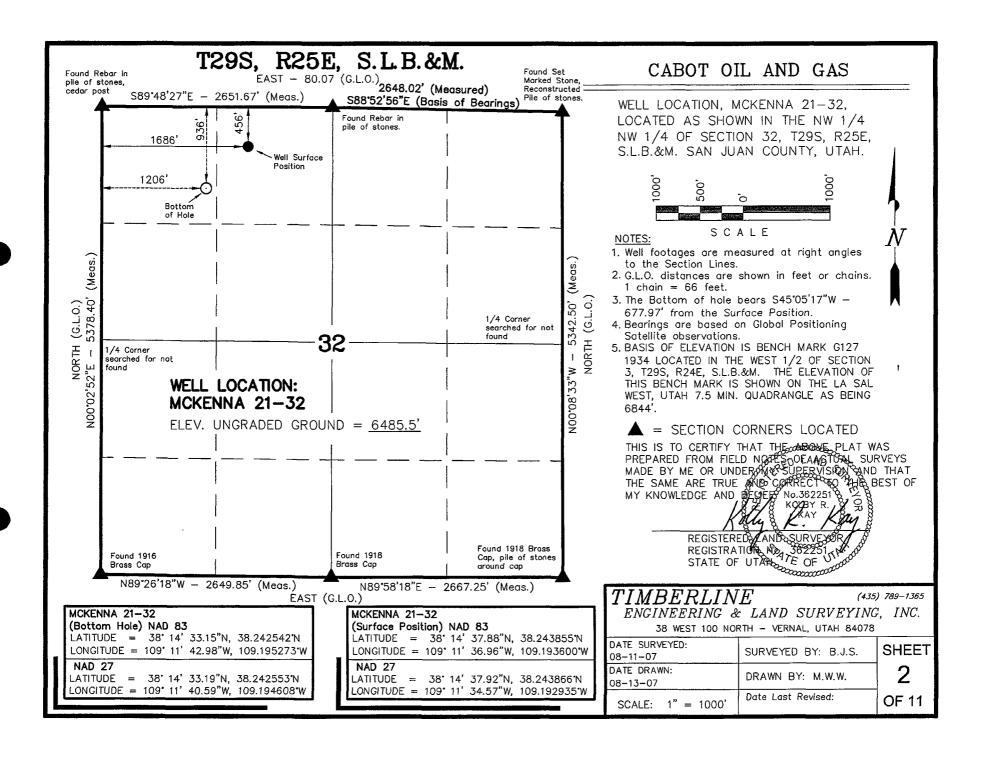
Very truly yours,

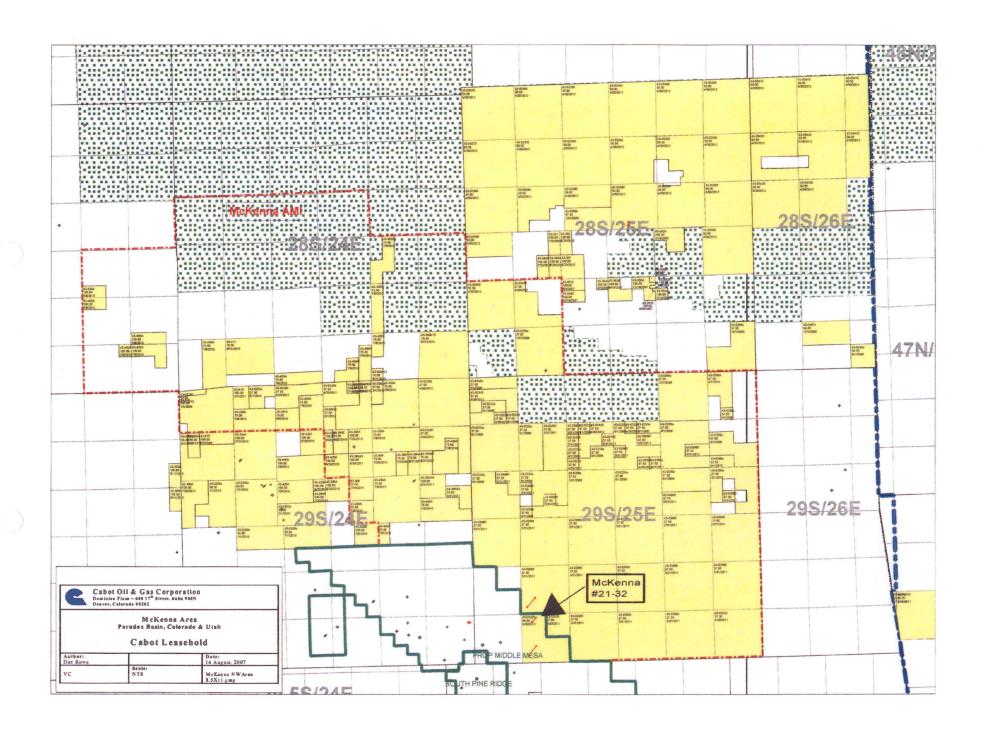
CABOT OIL & GAS CORPORATION

Daniel R. Rowe Landman

DRR/kbf

enclosures







Lieutenant Governor

State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

August 21, 2007

Cabot Oil & Gas Corporation 600 17th St., Ste. 900N Denver, CO 80202

Re:

McKenna 21-32 Well, 456' FNL, 1686' FWL, NE NW, Sec. 32, T. 29 South, R. 25 East,

Bottom Location 936' FNL, 1206' FWL, NW NW, Sec. 32, T. 29 South, R. 25 East,

San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31863.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

San Juan County Assessor

SITLA

Bureau of Land Management, Moab Office



Operator:		Cabot Oil &	& Gas Corporation	
Well Name & Numl	oer	McKenna 2	21-32	
API Number:		43-037-318	363	
Lease:		ML-48351		
Location:	NE NW	Sec. 32	T. 29 South	R. 25 East
Bottom Location:	NW NW	Sec. 32	T. 29 South	R. 25 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to spudding the well contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well contact Dustin Doucet
- Any changes to the approved drilling plan contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

• Dan Jarvis at:

(801) 538-5338 office

(801) 942-0873 home

• Carol Daniels at:

(801) 538-5284 office

• Dustin Doucet at:

(801) 538-5281 office

(801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Page 2 43-037-31863 August 21, 2007

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 8. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

CONFIDENTIAL 43-037-31863

12-Sep-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

Operator

Cabot Oil & Gas Corporation

AFE Number:

73606

Type: AF

Artesia Number:

SAN JUAN County, UT

Program Year:

2007

Location:

SECTION 32, T29S, R25E

Prospect: Formation:

Net AFE

TD:

PARADOX ISMAY & HONAKER TRAIL

AFE DHC/CWC:

\$1,400,000 \$1,050,000

PBTD:

Permit No:

Drop Date: CÓGC WI / NRI:

BPO / APO:

75.00000% 75.00000%

75.00000%

/ \$2,150,000

/ \$1,612,500

67.50000%

GL / KB Elev:

API Number:

Pipeline:

UWI:

Spud Date:

P&&A Date:

Completion Date:

Lease Number:

Rig/Contractor:

Date of First Prod:

Service Contractor:

Rig Release:

6505 / 0

Project Type: 09/09/2007

2-DEV DRILLING

Current Depth:

Daily Cost:

\$136,737

AFE Cost to Date:

UNITED RIG #41

4303731863

\$136,737

RIG UP UNITED RIG #41 Current Status:

Location & reserve pit built, pit lined, fenced, and full of water. 20" conductor, rat & mouse hole set. Received 24 loads of United Drilling Rig #41 to location, spot & unload rig components on new location. Set sub-base & steel mud tanks.

Current Depth:

Daily Cost:

\$2,354

\$139.091

Current Status:

RIGGING UP

Received 2 loads of rig components, assembled derrick (on the ground), set draw works on sub base, set mud pumps, generator house, water & fuel tanks. Released rig move trucks @ 12:00 noon, 9-Sept-07. A legs, cat walk, and traveling blocks will arrive today. Will set remainder of floor when A legs arrive. 75% RU.

09/11/2007

Current Depth:

Daily Cost:

\$10,430

AFE Cost to Date:

\$149,521

Current Status:

RIGGING UP UNITED RIG #41

Finished RU mud / fluid system. Filled all steel pits w/ reserve pit water. Primed up mud system & check for leaks. Wait on A legs to finish RU. A legs were inspected on Monday, 9/10/07. Legs are scheduled to be shipped today, 9/11/07.

Current Depth:

Daily Cost:

\$3,945

AFE Cost to Date:

\$153,466

Current Status:

RIGGING UP UNITED RIG #41

Wait on A legs to finish RU. Legs will be on location today, 9/12/07.

RECEIVED SEP 1 2 2007

DIV. OF OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company:	CABOT O	IL & G	AS CORPOR	RATION
Well Name:	MCKENN	A 21-32		
Api No: 43-037-318	63	Le	ease Type:	STATE
Section 32 Township	29S Range_	25E	County	SAN JUAN
Drilling Contractor	· · · · · · · · · · · · · · · · · · ·	<u>. </u>	RIC	3 #
	09/09/07			
-	DRY			
Drilling will Commend	ce:			
Reported by	DAVE MOO	RE		
Telephone #	(307) 212-41	121		
Date <u>09/12/07</u>	Sign	ed	CHD	· · · · · · · · · · · · · · · · · · ·

PAX# 801-359-3940 FAX & EARLENE

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FN	ITI	TY	Δ	CI	ΠO	N	F	O	R	Ν	
			_	\sim 1	-	14		v			1

Operator:

Cabot Oil & Gas Corporation (TIGHT HOLE WELL)

Operator Account Number: N 6345

Address:

600 - 17th Street, Ste. 900N

city Denver

state CO

Phone Number: (303) 226-9400

Wall 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4303731863	McKenna #21-32		NENW	32	298	25E	San Juan
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		ty Assignment ffective Date
A	99999	16337	9	0/ 15 /200)7	9/2	35/07
Comments: T	Smy a	111 - N/NW/1)		$\overline{\Omega}$	NFIN	FNTIAL

BAL = NWAW

zip 80202

not committed to Unit

API Number	Well Name		QQ Sec Twp			Rng County		
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date			
omments:							····	

Well 3

API Number	Well	QQ Sec Twp			Rng County		
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED

SEP 1 8 2007

Jean Arnold - Prod. Tech. Cabot Oil & Ga	Jean	Arnold	- Prod.	Tech.	Cabot	Oil -	&	Gas
--	------	--------	---------	-------	-------	-------	---	-----

Name (Please Print) Skinature

Prod. Tech. Title

9-17-07 Date

(5/2000)

STATE OF UTAH

FORM 9

DEPARTMENT OF NATURAL RESOURCES	, 51.111
DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-48351
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENTNAME: Middle Mesa
1. TYPE OF WELL OIL WELL GAS WELL OTHER TIGHT HOLE	8. WELL NAME and NUMBER: McKenna 21-32
2. NAME OF OPERATOR:	9. API NUMBER:
Cabot Oil & Gas Corp.	4303731863
3. ADDRESS OF OPERATOR: 600 17th St., Ste 900N CITY Denver STATE CO ZIP 80202 (303) 226-9443	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL	
FOOTAGES AT SURFACE: 456' FNL & 1686' FWL	COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 29S 25E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR INEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL
Date of work completion: CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	s, etc.
Change surface casing depth & cement as follows:	
Plan to run 9-5/8", 36#, J-55, LT&C surface casing. Change surface casing depth from 2400 2470'.	o' to 2545'. Found top of Chinle @
Change surface casing cement:	
From: 307 sx Premium Lite Plus (12.0 ppg, 2.45 yld) & 549 sx Type III (14.5 ppg, 1.40 yld)	
To: 271 sx Premium Lite FM (11.0 ppg, 2.78 yld) & 549 sx Type III (14.5 ppg, 1.40 yld)	
Lost circulation zones were encountered during drilling of 121/4" surface hole. Cement chang pressure.	e was made to lower hydrostatic
product.	RECEIVED
Verbal approval obtained from Dustin Doucet on 9/21/07.	SEP 2 6 2007
	DIV OF OU CAS & BARDETO
NAME (PLEASEPRINT) Rolando D. Benavides TITLE Contract Petroleur	DIV. OF OIL, GAS & MINING m Engineer
SIGNATURE SIGNATURE PATE 9/24/2007	
SIGNATURE DATE 9/24/2007	
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 10123107	COPY SERVICE OF THE STATE OF THE SERVICE OF THE SER

#Cement on Surface Cog should be circulated back to surface

2007-07 Cabot McKenna 14-32revil. Well name:

Cabot Oil & Gas Corporation Operator:

Surface Project ID: String type: 43-037-31863

San Juan County Location:

Max anticipated surface

Minimum design factors: **Environment:** Design parameters: Collapse: Collapse

H2S considered? No 65 °F Mud weight: 9dq 008.8 Design factor 1.125 Surface temperature: 101 °F Bottom hole temperature: Design is based on evacuated pipe.

Temperature gradient: 1.40 °F/100ft Minimum section length: 299 ft

Burst:

Design factor 1.00 Cement top: **Burst**

pressure: 2,240 psi Internal gradient: 0.120 psi/ft Non-directional string. **Tension:**

Calculated BHP 2,545 psi 8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J)

1.60 (J) No backup mud specified. Buttress: Premium: 1.50 (J)

Tension is based on air weight.

1.50 (B) Body yield: Re subsequent strings: Next setting depth:

8.100 ft Next mud weight: 9.500 ppg Next setting BHP: Neutral point: 2,214 ft 3,997 psi 19.250 ppg Fracture mud wt: Fracture depth: 2,545 ft Injection pressure: 2,545 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	2545	9.625	36.00	J-55	LT&C	2545	2545	8.796	1104.7
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor
1	1163	2020	1.736	2545	3520	1.38 -	92	453	4.94 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Minerals by:

Phone: (801) 538-5357 FAX: (801)359-3940

Date: October 23,2007 Salt Lake City, Utah

146 ft

ENGINEERING STIPULATIONS -

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

P	13.0	Ø 249	4 69	material de		4.4
14	4.					
U	(i) ii	a 13	6 14	មេដូច	8 22	8 B 123

	DIVISION OF OIL, GAS AND MIN	ling	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-48351
SUNDRY	NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill n drill horizontal la	new wells, significantly deepen existing wells below curre aterals. Use APPLICATION FOR PERMIT TO DRILL for	ent bottom-hole depth, reenter plugged v m for such proposals.	7. UNIT or CA AGREEMENT NAME: Middle Mesa
1. TYPE OF WELL OIL WELL	8. WELL NAME and NUMBER: MCKenna 21-32		
2. NAME OF OPERATOR: Cabot Oil & Gas Corp.			9. API NUMBER: 4303731863
3. ADDRESS OF OPERATOR:		PHONE NUMBER:	
	y Denver STATE CO ZIP 8	30202 (303) 226-9	9443 Wildcat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 456' F QTR/QTR, SECTION, TOWNSHIP, RAN	ige, meridian: NENW 32 29S 25		COUNTY: San Juan STATE: UTAH
	ROPRIATE BOXES TO INDICATE		`````````````````````````````````````
TYPE OF SUBMISSION	I Adjust	TYPE OF ACTIO	
NOTICE OF INTENT (Submit in Duplicate)	ACIDIZE ALTER CASING	DEEPEN	REPERFORATE CURRENT FORMATION
Approximate date work will start:	CASING REPAIR	FRACTURE TREAT NEW CONSTRUCTION	SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUM	E) WATER SHUT-OFF
Date of work completion.	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	other: Daily activity reports.
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FO	DRMATION
	OMPLETED OPERATIONS. Clearly show all pe		ths, volumes, etc.
NAME (PLEASE PRINT) Jean Arno	ld	TITLE Prod. Ted	h.
SIGNATURE MM/	Mary	DATE 10/23/200	07

(This space for State use only)

PECEVED

OCT 2 4 2007

23-Oct-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFF Number 73606 Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/14/2007

Current Depth:

Daily Cost:

\$32,544

AFE Cost to Date:

\$1,403,981

Current Status:

DRILLING

Drill 8-3/4" hole f/ 4953' to 4979', 26' / 3.5 hrs, 7.4 fph. Drill f/ 4979' to 5011', 32' / 3.0 hrs, 10.7 fph. Circ & teledrift survey @ 4968' on 2nd try, worked stuck pipe free after survey/ 5 min.

Drill f/ 5011' to 5035', 24' / 7.0 hrs, 3.4 fph. Drill f/ 5035' to 5048', 13' / 2.5 hrs, 5.2 fph. Drill f/ 5048' to 5072', 24' / 6.0 hrs, 4.0 fph in Cutler.

MW 13.1, VIS 44, WL 16.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 476' in 59.0 hrs, ROP 8.1.

MD ANGLE 4968 3.00

10/15/2007

Current Depth:

5,262

Daily Cost:

\$37,495

AFE Cost to Date:

\$1,441,476

Current Status:

DRILLING

Drill 8-3/4" hole f/ 5072' to 5105', 33' / 7.5 hrs, 4.4 fph. Drill f/ 5105' to 5122', 17' / 2.5 hrs, 6.8 fph. Drill f/ 5122' to 5203', 81' / 6.5 hrs, 12.5 fph. Drill f/ 5203' to 5262', 59' / 6.0 hrs, 9.8 fph in Cutler.

MW 13.1, VIS 58, WL 10.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 666' in 81.5 hrs, ROP 8.2.

10/16/2007

Current Depth: 5.296 Daily Cost: \$37,369

AFE Cost to Date:

\$1,478,845

PREP TO PUMP BLACK MAGIC DOWN HOLE Current Status:

Drill 8-3/4" hole f/ 5262' to 5296', 34' / 5.0 hrs, 6.8 fph.

Circ & teledrift survey twice @ 5245'. Worked stuck pipe loose after each survey. Service rig. Pipe stuck w/ kelly bushing above rotary table after servicing rig.

Work & jar on stuck pipe. Jar down & intermittantly attempt to rotate pipe in table w/ DC slips.

Work & jar on stuck pipe while mixing & weighting up Black Magic.

MW 13.1, VIS 47, WL 17.0

Survey:

MD Angle 5245 3.00

10/17/2007

Current Depth:

5,296

Daily Cost:

\$54,255

AFE Cost to Date:

\$1,533,100

Current Status:

PUMP BLACK MAGIC

Work & jar on stuck pipe while mixing & weighting up Black Magic. Spotted 46 bbls of 13.0 ppg Black Magic (15 bbls Black Magic inside pipe & calc top outside pipe @ 4640').

Placed 95K# down weight w/ 2-1/2 wraps of torque in pipe.

Pumped & moved 1 bbl Black Magic every hour/ 10 hrs.

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs (calc top of Black Magic @ 4491').

Work & jar on stuck pipe while waiting on Black Warrior wireline.

Pumped & moved 1bbl Black Magic every hour/ 2 hrs.

U Black Warrior wireline.

RIH to 4503' w/ freepoint tool, stop & check @ 3004' / 100% free.

Freepoint @ 4503', 4314', 4259' & 4190' (1st jt HWDP below jars) / all 100% stuck.

Freepoint @ 3004' / 100% free, 3802' / 75% free, 4016' / 55% free & 4127' (1st HWDP above jars) / 50% free.

POOH & RD Black Warrior wireline.

Pumped Black Magic 840' up hole w/ 1230 pump strokes. Calc top of Black Magic @ 3651' & calc bottom @ 4491'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs.

MW 13.1, VIS 50, WL 15.0

23-Oct-07

Region Name: Rocky Mountain

MCKENNA #21-32 Well Name:

AFE Number: 73606 Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/18/2007 Current Depth: Daily Cost:

\$70,386

AFE Cost to Date:

\$1,603,486

Current Status:

WORKING & JARRING STUCK PIPE WHILE RU WACO MUD CLEANER

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 3 hrs. Work & jar stuck pipe while Swaco RU mud cleaner & pumps/ 21 hrs. Finished mixing new batch of 13.0 ppg Black Magic @ 3:00 AM. Plan to lower solids & water loss in mud & spot Black Magic across BHA.

10/19/2007

Current Depth:

5,296

5,296

\$64,540 Daily Cost:

AFE Cost to Date:

\$1,668,026

Current Status:

WORK & CIRC PIPE WHILE MIXING BLACK MAGIC

Work & jar stuck pipe while circ hole & Swaco RU mud cleaner & pumps/ 7.5 hrs. Work pipe intermittantly while circulating & conditioning mud/ 6.5 hrs. Ran mud cleaner for 3 hrs.

Sart pumping Black Magic downhole. Pumped 424 strokes (16 bbls) & found premix tank empty. Discovered that 87 bbls Black Magic leaked by a closed suction valve back into the suction pit (active pits completely full). Dump sandtrap to lower pit volume. Work & jar stuck pipe every 30 min while circulating hole. Start filling premix tank w/ diesel to mix another 103 bbl batch of Black Magic. Work & jar stuck pipe every 30 min while circ hole/ 6 hrs.

MW 13.0; Vis 42; API WL 6.0

10/20/2007

Current Depth:

Daily Cost: 5,296

\$71,000

AFE Cost to Date:

\$1,739,026

Current Status:

WORK & JARRING STUCK PIPE

Work & jar stuck pipe every 30 min while circulating hole, finish adding barite to Black Magic, 13.0 ppg. Spot 103 bbls of 13.0 ppg Black Magic (25 bbls inside pipe & calc top outside pipe @ 3780'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 6 hrs. Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 14 hrs.

MW 13.0, VIS 44, WL 5.2

10/21/2007

Current Depth: 5,296

Daily Cost:

\$62,010

AFE Cost to Date:

\$1.801.036

Current Status:

PU 6 1/2" DRILL COLLARS

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour / 3 hrs.

Inspect derrick after repeated jarring, OK

RU Black Warrior wireline.

RIH w/ freepoint tool & found 3516' / 100% free, 3868' / 90% free, 4021' (5 jts down in HWDP) / 65% free, 4145' (1st HWDP above jars) / 45% free & 4206' (1st HWDP below jars) / 100% stuck.

POOH w/ freepoint tool & make up string shot #1. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off. POOH. Make up string shot #2. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off. POOH. Make up string shot #3. RIH & back off @ 4045' WLM / 4047' DPM (4 its HWDP above jars). POOH & RD Black Warrior wireline. Pump slug & TOOH w/ 5-stands DP. Drill pipe slips not holding, 1-slip die was broken. Replaced all slip dies w/ new dies / 1.5 hrs. TOOH w/ 36-stands DP & 5 its HWDP. Fish left in hole: Bit, mud motor, teledrift sub, (3) 6-1/2" DC, (30) 4-1/2" HWDP, 6-1/2" jars, (4) 4-1/2" HWDP, total 1210.80'. PU 8-1/8" washpipe BHA.

MW 13.0, VIS 45, WL 5.2

10/22/2007

Current Depth: 5,296 Daily Cost:

\$50,675

AFE Cost to Date:

\$1,851,711

WO WASHOVER SHOE Current Status:

Continue PU 8-1/8" washpipe BHA.

TIH w/ 1-stand of 4-1/2" HWDP & install rotating head rubber.

TIH w/ 8-1/8" washpipe BHA using a wet plug & checking every connection. LD top it on last 3 stands.

Make up kelly & wash to top of fish @ 4047'.

Wash & ream over top of fish @ 4047' to 4049'. Torque went away, unable to make any further headway.

Mix & pump slug, stand back kelly.

TOOH w/ washpipe BHA #1. Washover shoe was worn badly & marked w/ 3 distinct rings where it had been run on the top

Access washshoe markings & discuss forward plan.

Wait on cut-rite dressed 30 deg mule shoe washover shoe / 5.5 hrs.

MW 13.1, VIS 50, WL 5.2

23-Oct-07

Region Name: Rocky Mountain

MCKENNA #21-32 Well Name:

Cabot Oil & Gas Corporation

73606 AFE Number: 430049001 Artesia Number:

Type: AA

Operator

Project Type:

1-EXP DRILLING

10/23/2007

Current Depth: 5,296 Daily Cost:

\$39,081

AFE Cost to Date:

\$1,890,792

TOOH **Current Status:**

Wait on cut rite dressed 30 deg mule shoe washover shoe. Weatherford delivered a crippled castle shoe. Make up 8-1/8" washpipe BHA w/ 8-3/8" crippled castle shoe & 2 jts washpipe.
TIH w/ 1-stand of 4-1/2" HWDP & install rotating head rubber. TIH, slowly, w/ 8-1/8" washpipe BHA #2 using a wet plug to

4007'. Make up kelly & wash to top of fish @ 4047'.

Wash & work w/ kelly to top of fish @ 4047' and 2:45 AM down to 4079'.

Wash & work w/ kelly over top of fish @ 4047' and 2:45 AM down to 4079'.

Make connection. Wash & work without kelly over top of fish @ 4047' and 2:45 AM down to 4079'.

pump slug. Stand back kelly. TOOH slowly w/ washpipe BHA #2.

MW 13.0, VIS 54, WL 4.4

ORIGINAL

CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

(DIVISION OF OIL, GAS				5. LEASE DESIGNATION AND SERIAL NUMBER: ML-48351
SUNDRY	NOTICES AND RE	PORTS	ON WELI		5, IF INDIAN, ALLOTTEE ON TRIBE NAME.
170 not use this form for proposals to drift in drift herizontal la					7. UNIT OF CA AGREEMENT NAME: Middle Mesa
1. TYPE OF WELL OIL WELL			TIGHT HOLI		a. WELL NAME and NUMBER. McKenna 21-32
2 NAME OF OPERATOR.	 			 -	9 API NUMBER 4303731863
J. ADDRESS OF OPERATOR			80202	(303) 226-9443	10 FIELD AND POOL, OR WILDEAT! Wildcat
600 17th St., Ste. 900N	Denver	co	80202	(303) 220-3443	VVIII COLL
FOOTAGES AT SURFACE: 456' F	NL & 1686' FWL				COUNTY San Juan
OTR/OTR, SECTION, TOWNSHIP, RAN	GE. MERIDIAN. NENW 32	298 2	5E		STATE UTAH
11. CHECK APPE	ROPRIATE BOXES TO	INDICAT	E NATURE (OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION			ŢY	PE OF ACTION	
NOTICE OF INTENT (Gubrill in Duplicate)	ACIDIZE ALTER CASING		DEELLEN ILKVOLATINE		REPERFORATE GURRENT FORMATION SIDETRACK TO REPAIK WELL
Approximate date work will Afeit	CARING REPAIR CHANGE TO PREVIOUS PLA		DPERATOR		TIPMPORARILY ABANDON TUBING REPAIR
	CHANGE TUBING	una	PLUG AND A		VENT OR FURE
SUBSEQUENT REPORT	CHANGE WELL NAME		DI DI DE BACK		WATER DISPOSAL
(Sutmit Original Form Only)	CHANGE WHILI STATUS		PRODUCTIO	IN (START/RESU ME)	WATER SHUT OFF
ітате от жогк сотрісінні	COMMINGLE PRODUCING F	ORMATIONS	RECLAMATI	ON OI' WELL SITE	
	CONVERT WELL TYPE		RECOMPLE	TH - DIFFERENT FORMATIC)N
Plan to plug & abandon M Plug Interval #1 4328' - 4478' #2 3650' - 4050' #3 2470' - 2620' #4 Surface - 100' 8½" hole is full of 13.0 ppg	Cmt Plug (ft) Sx C 150' ~65 C 400' ~175 A 150' ~65 9 100' ~45 S	ting Class comments on top of across Wh	; HWDP flish @ alte Rim Sand ace csg @ 25	9 4478' I: Top 3700', Botto 545' C	OPY SENT TO OPERATOR cite: \(\langle 0 - 3 \langle - 2 \rangle - 3 \rangle - 2 \rangle - 3 \rangle -
				Jr	piliols:
NAME (PLEASE PRINT)	ald		ודוד	Prod. Tech.	
SHOWN UNK	rance		()A1	10/30/2007	
(This space for State vew only)	roved by the				DECEIVED
Útal	n Division of	1	=	4.0	RECEIVED
(5/2000) Oil, G	as and Mining	(See Intel	ggjons in Anverte S	inr)	OCT 3 0 2007
Date: /	0130107			1-1-4	-
By:	on Jan		All FAI	Acrof plus	DIV. OF OIL, GAS & MINING

CONFIDENTIAL

ORIGINAL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING FORM 9

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-48351
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME: Middle Mesa 8. WELL NAME and NUMBER:
OIL WELL GAS WELL OTHERTIGHT HOLE WELL"	McKenna 21-32 9. API NUMBER:
Cabot Oil & Gas Corp.	4303731863
3. ADDRESS OF OPERATOR: 600 17th St., Ste. 900N CITy Denver STATE CO 80202 (303) 226-9443	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL	
FOOTAGES AT SURFACE: 456' FNL & 1686' FWL	COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 29S 25E	STATE: UTAH
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION ACIDIZE	
NAME (PLEASE PRINT) Jean Arnold TITLE Prod. Tech.	COPY SENT TO OPERATE Date: 11/11/15
MANUEL (FLEAGE FRINT)	
SIGNATURE	
This space for State use only) APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: (See Instructions on Reverse Side)	RECEIVED OCT 3 1 2007 DIV. OF OIL, GAS & MINING
Werent Represent Given (0/30/07 X-Tay Plays	THE OF SIE, GAS & MINNING

43-039-31863

05-Nov-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

Cabot Oil & Gas Corporation

ISMAY & HONAKER TRAIL

AFE Number: 73606 Type: AA

Artesia Number: 430049001

09/15/2007

UNITED RIG #41

4303731863

SAN JUAN County, UT

Program Year:

2007

Location: SECTION 32, T29S, R25E

Prospect:

Operator

PARADOX

Formation: AFE DHC/CWC:

\$1,400,000

/ \$2,150,000 \$1,050,000 / \$1,612,500 PBTD:

TD:

Permit No: Drop Date:

Net AFE

COGC WI / NRI: BPO / APO:

75.00000%

75.00000%

67.50000% 75.00000% P&&A Date:

Spud Date:

Lease Number: Date of First Prod: Rig/Contractor:

Completion Date:

Service Contractor:

Pipeline:

API Number:

UWI: GL / KB Elev:

Rig Release:

6505 / 0 11/3/2007

1-EXP DRILLING Project Type:

09/09/2007

Current Depth:

Daily Cost:

\$136,737

AFE Cost to Date:

\$136,737

RIG UP UNITED RIG #41 Current Status:

Location & reserve pit built, pit lined, fenced, and full of water. 20" conductor, rat & mouse hole set. Received 24 loads of United Drilling Rig #41 to location, spot & unload rig components on new location. Set sub-base & steel mud tanks.

09/10/2007

Current Depth:

Daily Cost:

\$2,354

AFE Cost to Date:

Current Status: RIGGING UP

Received 2 loads of rig components, assembled derrick (on the ground), set draw works on sub base, set mud pumps, generator house, water & fuel tanks. Released rig move trucks @ 12:00 noon, 9-Sept-07. A legs, cat walk, and traveling blocks will arrive today. Will set remainder of floor when A legs arrive. 75% RU.

09/11/2007

Current Depth:

Daily Cost:

AFE Cost to Date:

\$149,521

RIGGING UP UNITED RIG #41 Current Status:

Finished RU mud / fluid system. Filled all steel pits w/ reserve pit water. Primed up mud system & check for leaks. Wait on A legs to finish RU. A legs were inspected on Monday, 9/10/07. Legs are scheduled to be shipped today, 9/11/07.

09/12/2007

Current Depth:

Daily Cost:

\$3.945

AFE Cost to Date:

\$153,466

Current Status:

RIGGING UP UNITED RIG #41

Wait on A legs to finish RU. Legs will be on location today, 9/12/07.

09/13/2007

Current Depth:

Daily Cost:

\$29.854

AFE Cost to Date:

\$183,320

Current Status:

RIGGING UP UNITED RIG #41

09/14/2007

Current Depth:

Daily Cost:

\$29.285

AFE Cost to Date:

\$212,605

Current Status:

RIGGING UP UNITED RIG #41

A legs arrived @ 5:00 p.m. Off loaded newly inspected A legs & installed on derrick.

Set A legs on rig floor. Moved derrick in place & moved onto rig floor. Set cat walk, upper dog house & 500 bbl water tank in place below rig. Released rig move trucks @ 1:00 PM, 9/13/07.

Page 1 of 14

String up traveling blocks & rig up bridle lines. Should spud late today, 9/14/07.

RECEIVED

NOV 0 5 2007

DIV. OF OIL, GAS & MINING

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

Current Status: DRILLING

Raised derrick, welded on drilling nipple & NU flowline. RU drill floor & PU kelly.

OD, ID & strap BHA. RU new kelly spinner. Prime up all fluid pumps

Jet bit #1 & make up on 8" mud motor.

Spud 12-1/4" surface hole @ 4:00 AM, 9/15/07. Drill f/ 50' to 83', 33' / 2.0 hrs, 16.5 fph.

Lost 500 bbls water, add LCM. Extremly hard sandstone.

MW 8.4, VIS 26

REED Bit #1, 12 1/4", M4349P, in @ 50', made 33' in 2 hrs, ROP 16.5'

<u>09/16/2007</u> Current Depth: 305 Daily Cost: \$38,504 AFE Cost to Date: \$279,235

Current Status: DRILLING

Drill 12-1/4" hole in hard sandstone f/ 83' to 88', 5' / 1.5 hrs, 3.3 fph.

Lost 100% circulation @ 88'. Pump 100 bbls premix gel w/ mica & cedar fiber LCM. Regain 100% circulation.

Drill f/ 88' to 120', 32' / 6.5 hrs, 4.9 fph, good circulation.

Drill f/ 120' to 136', 16' / 2.0 hrs, 8.0 fph.

Drill f/ 136' to 148', 12' / 1 hr, 12.0 fph.

Drill f/ 148' to 176', 28' / 2.0 hrs, 14.0 fph.

Drill f/ 176' to 188', 12' / 1.5 hrs, 8.0 fph.

Drill 12-1/4" hole in hard sandstone f/ 188' to 305', 117' / 6.0 hrs, 19.5 fph.

MW 8.4.

REED Bit #1, 12 1/4", M4349P, in @ 50', made 255' in 22.5 hrs, ROP 11.3'

<u>09/17/2007</u> Current Depth: 763 Daily Cost: \$30,652 AFE Cost to Date: \$309,887

Current Status: DRILLING

Drill 12-1/4" hole in hard sandstone f/ 305' to 395', 90' / 3.0 hrs, 30.0 fph.

Drill f/ 395' to 498', 103' / 5.0 hrs, 20.6 fph.

Work tight hole @ 498', pump 25 bbl gel sweep.

Drill f/ 498' to 517', 19' / 0.5 hr, 38.0 fph.

Drill f/ 517' to 548', 31' / 1.5 hrs, 20.7 fph.

Drill f/ 548' to 658', 110' / 6.0 hrs, 18.3 fph.

Drill f/ 658' to 763', 105' / 6.0 hrs, 17.5 fph.

MW 8.4, VIS 28

REED Bit #1, 12 1/4", M4349P, in @ 50', made 713' in 44.5 hrs, ROP 16.0'

Survey:

MD Angle 517 1.00

<u>09/18/2007</u> Current Depth: 1,120 Daily Cost: \$56,497 AFE Cost to Date: \$366,384

Current Status: DRILLING

Drill from 763' to 793', ROP down to 12 fph. Pump sweep & circ hole clean. TOH, had tight hole from 670' to 480'. MU type 5-4-7 bit & TIH. Precautionary wash & ream from 700' to 793'. No fill on bottom, no tight hole. Drill from 793' to 1120'. ROP increased to 23 fph with new bit. WLS 1 deg at 1009'.

<u>09/19/2007</u> Current Depth: 1,591 Daily Cost: \$33,142 AFE Cost to Date: \$399,526

Current Status: DRILLING

Drill from 1120' to 1591'. Drilled into softer formation at 1110' and ROP increased significantly. Lost complete returns at 1474', 1533' & 1568'. Was able to regain circulation each time with gel & LCM. Lost returns again at 1591', unable to regain circ or fill hole. POOH to let hole heal, LD motor & Teledrift tool, and increase LCM conc in mud system. WLS 1 deg at

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

09/20/2007 Current Depth: 1,786 Daily Cost: \$46,185 AFE Cost to Date: \$445,711

DRILLING Current Status:

TOOH. LD 8" mud motor & teledrift tool.

Mix 20#/bbl LCM to 150 bbls pre-mix gel in pre-mix tank. Pump down & filled up hole, fluid static.

PU double box lead DC & make up bit #2.

TIH, break circ @ 800'. TIH to 1560', precautionary wash & ream f/ 1560' to 1591', no fill on bottom, no tight spots, 100% circulation. Bypassed shakers to keep LCM in system.

Drill f/ 1591' to 1616', 25' / 1 hr, 25.0 fph. Controll drill due to losses w/ 1-pump only.

Lost circ (100%). Mix pre-mix gel & LCM @ 35%, pump 150 bbls, regain full circ.

Drill f/ 1616' to 1676', 60' / 2.0 hrs, 30.0 fph, lost 100% circ.

Mix & pump prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1676' to 1683', lost 100% circ.

Mix & pump 150 bbls prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1683' to 1702', 19' / 0.5 hr, 38.0 fph, full circ.
Drill f/ 1702' to 1722', 20' / 0.5 hr, 40.0 fph, lost 100% circ.

Mix & pump 130 bbls prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1722' to 1754', 32' / 1 hr, 32.0 fph. Lost 100% circ.

Mix & pump 130 bbls prehydrated gel & 30 #/bbl LCM, regained full circ.

Drill f/ 1754' to 1786', 32' / 1 hr, 32.0 fph. Lost circ, attempt to regain circ.

09/21/2007 Current Depth: 2,080 Daily Cost: \$43,169 AFE Cost to Date: \$488,880

DRILLING Current Status:

Build up surface water volume in preparation to drill without returns. Drill from 1786' to 1817' with no circulation, got full circulation back at 1817'. Drill from 1817' to 2080' with full circulation. Bit jets plugged & blew pressure sensor off standpipe. POOH to unplug bit and repair standpipe. WLS 3/4 deg at 2016'.

09/22/2007 Current Depth: 2,400 Daily Cost: \$30,251 AFE Cost to Date: \$519,131

Current Status: DRILLING

TOOH, unplug 2-jet nozzles in bit & repair stand pipe. TIH, precautionary wash & ream f/ 2050' to 2080'. No tight spots, no fill on bottom.

Drill 12-1/4" hole f/ 2080' to 2170', 90' / 6.0 hrs, 15.0 fph.

Drill f/ 2170' to 2247', 77' / 6.0 hrs, 12.8 fph.

Drill f/ 2247' to 2400', 153' / 6.0 hrs, 25.5 fph, 100% circulation.

Switched flow across shakers @ 5:00 AM to help locate top of Chinle formation (should be red in color).

HTC Bit #2, 12 1/4", HR-S30C, in @ 793', made 1,607' in 77.0 hrs, ROP 21.1.

MW VIS WL 8.6 45 15.0

09/23/2007 \$29,400 Current Depth: 2,545 Daily Cost: AFE Cost to Date: \$548,531

TOOH. Current Status:

Drill 12-1/4" hole f/ 2400' to 2495', 95' / 9.0 hrs, 10.6 fph. Top of Chinle @ 2470'. Drill f/ 2495' to 2510', 15' / 2.0 hrs, 7.5 fph. Drill f/ 2510' to 2545', 35' / 6.0 hrs, 5.8 fph. Circ hole clean, full circulation. Wipe hole f/ 2545' to 230' to top of 6" DC, no excessive tight hole. Circ hole clean, full circulation across shaker. TOOH to run surface casing.

HTC Bit #2, 12 1/4", HR-S30C, in @ 793', out @ 2,545', made 1,752' in 93.0 hrs, ROP 18.8.

MW VIS WL 8.6 45 15.0

MD **ANGLE** 2521 0.50

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

09/24/2007 Current Depth: 2,545 Daily Cost: \$145,565 AFE Cost to Date: \$694,096

Current Status: NU BOPE.

TOOH, LD 8" DC & shock tool. RU casing crew & PU machine.

Ran 55 jts 9-5/8", 36#, J-55, LT&C casing w/ float shoe & float collar @ 2496'.

Ran 8-centralizers: one centralizer on first 3 jts, then one centralizer every other it

Broke circulation @ 1200'. Landed 9-5/8" casing @ 2545' Circ casing w/ full circulation. RD casing crew & RU BJ Services. Pres test pump & lines to 2500 psi. Pumped 30 bbls gel spacer, 10 BW, then lead cement: 271 sx / 725 cf / 134 bbls Premium Lite FM w/ additives @ 11.0 ppg followed by tail cement: 549 sx / 770 cf / 137 bbls Type III w/ additives @ 14.5 ppg. Dropped top rubber plug & displaced w/ 193.5 BW. Bumped plug w/ 1250 psi, float held.

Had full returns, circ 50 bbls cement to surface. Monitor cement fall back in annulus, cement fell back 5' below rotary table. Clean cellar, prep for welder. Weld on 11"-5Mx9-5/8" SOW casinghead. Pres test weld to 1000 psi. NU BOP stack.

MW VIS WL 8.4 26 0.00

<u>09/25/2007</u> Current Depth: 2,545 Daily Cost: \$30,626 AFE Cost to Date: \$724,722

Current Status: PRESSURE TEST BOPE.

NU 11"X5m BOP

Dump & clean LCM & cuttings out of mud pits. Fill pits w/ reserve pit water. NU rotating head.

Welder finished installing new choke line, kill line & vent lines to flare pit.

Changed liners in #1 & #2 mud pumps to 4-1/2".

<u>09/26/2007</u> Current Depth: 2,545 Daily Cost: \$28,215 AFE Cost to Date: \$752,937

Current Status: PRESSURE TEST BOPE.

Finish installing new 4-1/2" liners in both mud pumps. Weld & connect flow line f/ rotating head to flow ditch. Pres test upper & lower rams, TIW valves, dart valve & floor TIW valves to 250 psi low/ 5 min & 5000 psi high/ 10 min. Floor TIW valve failed to test, have new one on the way. Set C22 test plug in FMC 11"-5M casinghead. New HCR valve arrived, installed on choke line side. Pres test casing to 1700 psi/ 30 min, OK. Continue testing kill & choke valves to 250 psi / 5 min, 5000 psi / 10 min. Repair & retighten leaking flanges. Welder rebuilt choke line to manifold after installation of HCR valve. Pres test to 5000 psi, OK. BOP testing 80% complete.

<u>09/27/2007</u> Current Depth: 2,780 Daily Cost: \$36,466 AFE Cost to Date: \$789,403

Current Status: DRILLING

Pres test all choke manifold valves, blind rams & replacement TIW valve to 250 psi low/ 5 min & 5000 psi high/ 10 min, OK. Pres test annular to 250 psi low/ 5 min & 2500 psi high/ 10 min, OK. PU & make up new 8-3/4" PDC Bit, mud motor & teledrift tool. TIH w/ BHA. Installed new rubber in rotating head. Drill cement, float collar @ 2496', cement & float shoe @ 2545'. Drill 10' of new hole f/ 2545' to 2555'. Circ hole clean. RU testers. Perform formation integrity test @ 2555' w/ 8.4 ppg water & 150 psi surface pressure, 9.5 ppg EMW. Drill 8-3/4" hole f/ 2555' to 2780', 225' / 5.5 hrs, 40.9 fph in Chinle. MW 8.4

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 235' in 5.5 hrs. ROP 42.7

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

09/28/2007 Current Depth: 3.595 Daily Cost: \$37,873 AFE Cost to Date: \$827,276

DRILLING Current Status:

Drill 8-3/4" hole f/ 2780' to 2982', 202' / 5.0 hrs. 40.4 fph.

Drill f/ 2982' to 3014', 32' / 1 hr, 32.0 fph.
Drill f/ 3014' to 3105', 91' / 4.5 hrs, 20.2 fph in Moenkopi.

Drill f/ 3105' to 3204', 99' / 2.0 hrs, 49.5 fph.

Drill f/ 3204' to 3327', 123' / 3.0 hrs. 41.0 fph.

Drill f/ 3327' to 3521', 194' / 4.0 hrs, 48.5 fph. Drill f/ 3521' to 3595', 74' / 1.5 hrs, 49.3 fph.

MW 8.65, VIS 38, WL 25

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1050' in 27 hrs, ROP 38.9

Survey:

MD Angle 3014 0.00 3521 0.50

Current Depth: 09/29/2007 3,701 Daily Cost: \$41,419 AFE Cost to Date: \$868.695

REBUILD SURFACE MUD VOLUME TO KILL WEIGHT **Current Status:**

Drill 8-3/4" hole f/ 3595' to 3615', 20' / 0.5 hr, 40.0 fph.

Drill f/ 3615' to 3701', 86' / 1.5 hrs, 57.3 fph, well started flowing (water flow in White Rim sandstone).

Drill crew shut in well, SI @ 9:10 AM, 9/28/07 w/ 406 psi SIDPP & 600 psi SICP w/ 10 bbl gain, 9.3 ppg mud wt.

Lubricate rubber in annular, set slips in rotary, rotate drill string @ 19 RPM.

Mix surface pits to 11.6 ppg w/ barite for kill wt mud.

Pump 11.6 ppg kill wt mud w/ returns through choke & loaded hole.

Opened well, well flowing 1-1/2" stream out of choke line w/ FP 100 psi. SI well & check pressure, SIDPP 0 psi, SICP 100 psi. Recalculated mud weight needed to kill well @ 12.2 ppg. Start rebuilding surface mud pit volume.

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1156' in 29 hrs, ROP 39.9

09/30/2007 Current Depth: 3.869 Daily Cost: \$44,382 AFE Cost to Date: \$913,077

CHANGE ANNULAR RUBBER Current Status:

Circ & condition surface mud, raise mud weight to 12.2 ppg.

Kill well on choke w/ 12.2 ppg mud, recovered the 11.6 ppg circ out of hole & transferred to pre mix tank for weight up. Well dead, no flow, pipe free.

Circ w/ one pump, work pipe, flow check well, no flow.

Drill 8-3/4" hole f/ 3701' to 3806', 105' / 2.5 hrs, 42.0 fph.

Drill f/ 3806' to 3869', 63' / 1.5 hrs, 42.0 fph in White Rim sand.

Circ hole clean, raise mud weight in pre mix tank to 12.6 ppg (for +0.3 ppg trip margin).

Installed / changed out new union & transducer on stand pipe for teledrift survey unit.

Spot 12.6 ppg mud in hole.

TOOH w/ bit to 2435', inside casing shoe @ 2545'.

Monitor well for flow, no flow.

MW 12.2, VIS 55, WL 14.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1324' in 33 hrs, ROP 40.1

Survey:

MD Angle

3868 1.00

Finish TOOH, check for flow, no flow.

Clean up / wash down BOP stack. Pull flowline.

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

10/01/2007 Current Depth: 3.869 Daily Cost: \$35,043 AFE Cost to Date: \$948,120

RAISE MUD WT TO KILL WELL **Current Status:**

Pulled off rotating head & flowline. Closed blind rams on BOP, unboit top of 11"- 5M annular preventor. Changed rubber sealing element inside annular preventor. RU Single Jack Testing service. Opened HCR valve & blind rams. Well started flowing, could not set test plug in wellhead to test annular preventor. Well flowing 1.5" stream out choke line w/ 120 psi on

Pulled flowline (no valves on flow line) back to rotating head. Ordered double box bit sub bored for float valve. Lay line f/ auto choke on manifold to pre mix mud tank to monitor & gauge mud returns. Made up new bit, bit sub w/ float, 1-it DP, HWDP & regular DP & strip in hole. Recovered mud through choke manifold to pre mix mud tank. Water broke into mud column, turned to straight water, diverted water through choke to reserve pit. Continue stripping in hole w/ bit to 3638'. Closed annular & pulled rubber out of rotating head. Lubricate annular rubber w/ motor oil, rotating string @ 20 RPM.

10/02/2007 Current Depth: 3,869 Daily Cost: \$42,302 AFE Cost to Date: \$990.422

Current Status: TIH W/ DRILLING BHA

Circ & condition surface mud volume, raise mud weight to 12.9+ ppg. Pump kill weight mud down DP w/ returns through choke. Well dead, flow check well. PU new DP & TiH to 3689', hit tight hole. Circ & condition mud through full open choke to mud pits, keeping mud wt @ 12.9 ppg. Installed flowline off rotating head, finish circ & conditioning over shakers. Mix & spot 50 bbl pill of 13.5 ppg heavy slug mud down DP. TOOH, filling pipe every 3 stands, no over pull, no tight spots, no flow. TIH w/ drilling BHA.

10/03/2007 Current Depth: Daily Cost: \$48,986 AFE Cost to Date: \$1,039,408

Current Status: PREP TO TOOH

TIH, tag tight hole @ 3716'.

Wash & ream f/ 3700' to 3869' w/ full circulation, no loss, no flow.

Drill 8-3/4" hole f/ 3869' to 3933', 64' / 3 hrs / 21.3 fph in Cutler.

Drill f/ 3933' to 4005', 72' / 6.0 hrs, 12.0 fph, hard sandstone.

Drill f/ 4005' to 4016', 11' / 2.0 hrs, 5.5 fph.

Drill f/ 4016' to 4040', 24' / 3.0 hrs, 8.0 fph.

MW 12.7, VIS 41, WL 15.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1495' in 44 hrs, ROP 34.0

Survey:

MD Anale 3996' 1.50

10/04/2007 Current Depth: 4,110 Daily Cost: \$46,665 AFE Cost to Date: \$1,086,073

Current Status: DRILLING

Drill 8-3/4" hole f/ 4040' to 4058', 18' / 2.5 hrs, 7.2 fph.

Circ hole clean, mix & pump 30 bbls 13.5 ppg dry job slug down DP.

TOOH, no flow, hole took proper fill up.

Change bits, PU bit #4.

TIH to 3998'. Precautionary wash & ream to 4058', no fill on bottom, no tight spots.

Drill f/ 4058' to 4083', 25' / 5.5 hrs, 4.5 fph.
Drill f/ 4083' to 4110', 27' / 6.0 hrs, 4.5 fph in Cutler.

MW 13.0, VIS 44, WL 14.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', out @ 4058', made 1513' in 46.5 hrs, ROP 32.5

REED Bit #4, 8 3/4", R27P, in @ 4058', made 52' in 11.5 hrs, ROP 4.5

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

AFE Number: 73606 Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/05/2007

Current Depth: 4,221 Daily Cost:

\$29,326

AFE Cost to Date:

\$1,115,399

DRILLING **Current Status:**

Drill 8-3/4" hole f/ 4110' to 4114', 4' / 1.25 hrs, 3.2 fph. Drill f/ 4114' to 4116', 2' / 0.5 hr, 4.0 fph. Circ bottoms up, pump 30 bbls, 13.5 ppg dry job slug. TOOH. Break off bit & LD mud motor. Re-nozzle bit, make up bit, bit sub & teledrift. TIH, precautionary wash & ream f/ 4085' to 4116', no fill, no tight spots, no flow. Drill 8-3/4" hole f/ 4116' to 4157', 41' / 5.5 hrs, 7.5 fph. Drill f/ 4157' to 4221', 64' / 6.0 hrs, 10.7 fph in Cutler. MW 13.0, VIS 55, WL 12.0 SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', out @ 4058', made 1513' in 46.5 hrs, ROP 32.5

REED Bit #4, 8 3/4", R27P, in @ 4058', made 163' in 24.75 hrs, ROP 6.6

10/06/2007

Current Depth:

4.395

Daily Cost:

\$34,613

AFE Cost to Date:

\$1,150,012

Current Status:

DRILLING

Drill 8-3/4" hole f/ 4221' to 4225', 4' / 1 hr, 4.0 fph. Lost pump pressure, pres down to 400 psi. Work on both mud pumps bad valves in both pumps.

Drill f/ 4225' to 4232' w/ one mud pump, 7' / 1.5 hrs, 4.7 fph.

Drill f/ 4232' to 4305', 73' / 8.0 hrs, 9.1 fph.

Drill f/ 4305' to 4346', 41' / 6.0 hrs, 6.8 fph.
Drill f/ 4346' to 4395', 49' / 6.0 hrs, 8.2 fph in Cutler. MW 13.0, VIS 55, WL 14.0

REED Bit #4, 8 3/4", R27P, in @ 4058', made 337' in 47.25 hrs, ROP 7.1

10/07/2007

Current Depth:

4,481

Daily Cost:

\$39,972

AFE Cost to Date:

\$1.189.984

Current Status: TIH W/ NEW BIT. Drill f/ 4474' to 4481', 7'/ 2.0 hrs, 3.5 fph.

Drill 8-3/4" f/ 4395' to 4474', 79'/ 11.5 hrs, 6.9 fph. TOOH. TIH w/ bit #5.

MW 13.1, VIS 61, WL 11.7

REED Bit #4, 8 3/4", R27P, in @ 4058', OUT @ 4481', made 423' in 61.00 hrs. ROP 6.9 REED Bit #5, 8 3/4", R27P, in @ 4,481'.

10/08/2007

Current Depth: 4,481 Daily Cost:

\$13,198

AFE Cost to Date:

\$1,203,182

REPAIR RIG. **Current Status:**

TIH w/ bit #5 to 4437'. Troubleshoot & attempted to repair #1 mud pump (clutch was burned up). Dumped 20 sx barite @ pump suction & TOOH to 2476' inside of 9-5/8" casing shoe. Repaired clutch & drive coupling on premix tank centrifugal pump. Replaced active system hopper centrifugal pump. Replaced clutch plates in #1 mud pump motor (#1 mud pump clutch would not engage fully). Troubleshoot & attempted to repair #1 mud pump. (pneumatic clutch soleniod was broken & bypassing air). Wait on pneumatic clutch soleniod. Raised mud wieght in active to 13.1 ppg & mixed mud in premix pit.

MW 12.9, VIS 50, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481'.

10/09/2007 Current Status: Current Depth: DRILLING

4,517

Daily Cost:

\$23,581

AFE Cost to Date:

\$1,226,763

Wait on pneumatic clutch solenoid. Found that clutch plates on #1 mud pump were installed too tight. Reinstall clutch plates properly & reroute air lines through pneumatic clutch solenoid.

TIH to 4437'. Precaution wash & ream f/ 4437' to 4481', had 1.5' of fill. Drill 8-3/4" hole f/ 4481' to 4492', 11' / 6.0 hrs, 1.8 fph. Drill f/ 4492' to 4517', 25' / 5.5 hrs, 4.5 fph in Cutler.

MW 13.2, VIS 61, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 36' in 11.5 hrs, ROP 3.1.

05-Nov-07

Region Name: Rocky Mountain

Well Name: **MCKENNA #21-32**

AFE Number: 73606 Operator **Cabot Oil & Gas Corporation** Artesia Number: 430049001

1-EXP DRILLING Project Type:

10/10/2007 Current Depth: 4,593 Daily Cost: \$30,821 AFE Cost to Date: \$1,257,584

Current Status: DRILLING

Drill 8-3/4" hole f/ 4517' to 4537', 20' / 1.5 hrs, 13.3 fph.

Drill f/ 4537' to 4560', 23' / 7.0 hrs, 3.3 fph. Dry out & adjust drawworks brake bands. Drill f/ 4560' to 4579', 19' / 7.5 hrs, 2.5 fph.

Drill f/ 4579' to 4580', 1' / 0.5 hr, 2.0 fph. Drill f/ 4580' to 4581', 1' / 0.5 hr, 2.0 fph.

Change 2-swabs, 1-liner & packing in #1 mud pump/ 2 hrs.

Drill f/ 4581' to 4593', 12' / 3.5 hrs, 3.4 fph.

MW 13.0, VIS 53, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 112' in 32 hrs, ROP 3.5.

Survey:

MD Angle 4496 0.75

10/11/2007 Current Depth:

4.596 Daily Cost: \$16,708 AFE Cost to Date: \$1,274,292

Type: AA

\$1,325,295

Current Status: TOOH

Drill 8-3/4" hole f/ 4593' to 4596', 3' / 1 hr, 3.0 fph in Cutler.

Change swab in #2 mud pump, found hole in mud line spool just below standpipe connection.

RU hose to bypass standpipe, mix & pump slug.

TOOH to 2377' inside of 9-5/8" casing shoe.

Wait on welder & new mud line pipe. Remove bad mud line spool & check both mud pumps.

Build new mud line. Install new pneumatic clutch solenoid on #1 mud pump motor.

Build & install new mud line f/ mud pump bumper hose to standpipe in subbase.

Test new mud line against upper kellycock to 3000psi for 10 min, OK.

Install fillup & cellar jet lines. Repair pop off valve on #2 mud pump.

TOOH for PDC bit & mud motor.

MW 13.1, VIS 50, WL 11.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 115' in 33 hrs, ROP 3.5.

10/12/2007 Current Depth: 4,757 Daily Cost: \$51,003 AFE Cost to Date:

DRILLING Current Status: TOOH for PDC bit & mud motor.

LD bit #5, bit sub & teledrift sub.

PU bit #6, mud motor & teledrift sub. TIH to 4561', make up kelly & break circ. Precautionary wash & ream f/ 4561' to 4596', had 3' of fill.

Drill 8-3/4" hole f/ 4596' to 4690', 94' / 7.5 hrs, 12.5 fph.

Drill f/ 4690' to 4757', 67' / 6 hrs, 11.2 fph.

MW 12.9, VIS 53, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', out @ 4596', made 115' in 33 hrs, ROP 3.5. SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 161' in 13.5 hrs, ROP 11.9'

10/13/2007 Current Depth: 4.953 AFE Cost to Date: Daily Cost: \$46,142 \$1,371,437

DRILLING Current Status:

Drill 8-3/4" hole f/ 4757' to 4789', 32' / 6.5 hrs, 4.9 fph. Drill f/ 4789' to 4914', 126' / 11.0 hrs, 11.5 fph. Drill f/ 4914' to 4953', 39' / 6.0 hrs, 6.5 fph.

MW 13.0, VIS 45, WL 15.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 357' in 37.0 hrs, ROP 9.6,

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

Operator Cabot Oil & Gas Corporation AFE Number: 73606 Artesia Number: 430049001 Type: AA

Project Type: 1-EXP DRILLING 10/14/2007

Current Depth: 5,072 Daily Cost: \$32,544

AFE Cost to Date:

\$1,403,981

DRILLING Current Status:

Drill 8-3/4" hole f/ 4953' to 4979', 26' / 3.5 hrs, 7.4 fph. Drill f/ 4979' to 5011', 32' / 3.0 hrs, 10.7 fph. Circ & teledrift survey @ 4968' on 2nd try, worked stuck pipe free after survey/ 5 min.

Drill f/ 5011' to 5035', 24' / 7.0 hrs, 3.4 fph. Drill f/ 5035' to 5048', 13' / 2.5 hrs, 5.2 fph. Drill f/ 5048' to 5072', 24' / 6.0 hrs. 4.0 fph in Cutler.

MW 13.1, VIS 44, WL 16.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 476' in 59.0 hrs, ROP 8.1.

MD **ANGLE** 4968' 3.00

10/15/2007 Current Depth: 5,262 Daily Cost:

\$37,495

\$37.369

AFE Cost to Date:

AFE Cost to Date:

\$1,441,476

\$1,478,845

Current Status:

DRILLING

Drill 8-3/4" hole f/ 5072' to 5105', 33' / 7.5 hrs, 4.4 fph. Drill f/ 5105' to 5122', 17' / 2.5 hrs, 6.8 fph. Drill f/ 5122' to 5203', 81' / 6.5 hrs, 12.5 fph. Drill f/ 5203' to 5262', 59' / 6.0 hrs, 9.8 fph in Cutler.

Daily Cost:

MW 13.1, VIS 58, WL 10.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 666' in 81.5 hrs, ROP 8.2.

10/16/2007 Current Depth:

5.296 PREP TO PUMP BLACK MAGIC DOWN HOLE **Current Status:**

Drill 8-3/4" hole f/ 5262' to 5296', 34' / 5.0 hrs, 6.8 fph.

Circ & teledrift survey twice @ 5245'. Worked stuck pipe loose after each survey.

Service rig. Pipe stuck w/ kelly bushing above rotary table after servicing rig.

Work & jar on stuck pipe. Jar down & intermittantly attempt to rotate pipe in table w/ DC slips.

Work & jar on stuck pipe while mixing & weighting up Black Magic.

MW 13.1, VIS 47, WL 17.0

Survey:

MD Angle 5245 3.00

10/17/2007 Current Depth:

5,296

Daily Cost: \$54,255 AFE Cost to Date:

\$1,533,100

PUMP BLACK MAGIC Current Status:

Work & jar on stuck pipe while mixing & weighting up Black Magic.

Spotted 46 bbls of 13.0 ppg Black Magic (15 bbls Black Magic inside pipe & calc top outside pipe @ 4640').

Placed 95K# down weight w/ 2-1/2 wraps of torque in pipe.

Pumped & moved 1 bbl Black Magic every hour/ 10 hrs.

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs (calc top of Black Magic @ 4491').

Work & jar on stuck pipe while waiting on Black Warrior wireline.

Pumped & moved 1bbl Black Magic every hour/ 2 hrs.

U Black Warrior wireline.

RIH to 4503' w/ freepoint tool, stop & check @ 3004' / 100% free.

Freepoint @ 4503', 4314', 4259' & 4190' (1st jt HWDP below jars) / all 100% stuck.
Freepoint @ 3004' / 100% free, 3802' / 75% free, 4016' / 55% free & 4127' (1st HWDP above jars) / 50% free.

POOH & RD Black Warrior wireline.

Pumped Black Magic 840' up hole w/ 1230 pump strokes. Calc top of Black Magic @ 3651' & calc bottom @ 4491'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs.

MW 13.1, VIS 50, WL 15.0

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

AFE Number: 73606 Type: AA Operator **Cabot Oil & Gas Corporation** Artesia Number: 430049001

Project Type: 1-EXP DRILLING

10/18/2007 Current Depth: 5.296 Daily Cost: \$70,386 AFF Cost to Date: \$1,603,486

Current Status: WORKING & JARRING STUCK PIPE WHILE RU WACO MUD CLEANER

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 3 hrs. Work & jar stuck pipe while Swaco RU mud cleaner & pumps/ 21 hrs. Finished mixing new batch of 13.0 ppg Black Magic @ 3:00 AM. Plan to lower solids & water loss in mud & spot Black Magic across BHA.

10/19/2007 Current Depth: 5.296 Daily Cost: \$64,540 AFE Cost to Date: \$1,668,026

Current Status: WORK & CIRC PIPE WHILE MIXING BLACK MAGIC

Work & jar stuck pipe while circ hole & Swaco RU mud cleaner & pumps/ 7.5 hrs.

Work pipe intermittantly while circulating & conditioning mud/ 6.5 hrs. Ran mud cleaner for 3 hrs.

Sart pumping Black Magic downhole. Pumped 424 strokes (16 bbls) & found premix tank empty. Discovered that 87 bbls Black Magic leaked by a closed suction valve back into the suction pit (active pits completely full). Dump sandtrap to lower pit volume. Work & jar stuck pipe every 30 min while circulating hole. Start filling premix tank w/ diesel to mix another 103 bbl batch of Black Magic. Work & jar stuck pipe every 30 min while circ hole/ 6 hrs.

MW 13.0; Vis 42; API WL 6.0

10/20/2007 Current Depth: 5,296 Daily Cost: \$71,000 AFE Cost to Date: \$1,739,026

WORK & JARRING STUCK PIPE Current Status:

Work & jar stuck pipe every 30 min while circulating hole, finish adding barite to Black Magic, 13.0 ppg. Spot 103 bbls of 13.0 ppg Black Magic (25 bbls inside pipe & calc top outside pipe @ 3780'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 6 hrs. Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 14 hrs.

MW 13.0, VIS 44, WL 5.2

10/21/2007 Current Depth: 5,296 Daily Cost: \$62,010 AFE Cost to Date: \$1.801.036

PU 6 1/2" DRILL COLLARS **Current Status:**

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour / 3 hrs.

Inspect derrick after repeated jarring, OK

RU Black Warrior wireline.

RIH w/ freepoint tool & found 3516' / 100% free, 3868' / 90% free, 4021' (5 its down in HWDP) / 65% free, 4145' (1st HWDP above jars) / 45% free & 4206' (1st HWDP below jars) / 100% stuck.

POOH w/ freepoint tool & make up string shot #1. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off, POOH. Make up string shot #2. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off. POOH. Make up string shot #3. RIH & back off @ 4045' WLM / 4047' DPM (4 its HWDP above jars). POOH & RD Black Warrior wireline. Pump slug & TOOH w/ 5-stands DP. Drill pipe slips not holding, 1-slip die was broken. Replaced all slip dies w/ new dies / 1.5 hrs. TOOH w/ 36-stands DP & 5 jts HWDP. Fish left in hole: Bit, mud motor, teledrift sub, (3) 6-1/2" DC, (30) 4-1/2" HWDP, 6-1/2" jars, (4) 4-1/2" HWDP, total 1210.80'. PU 8-1/8" washpipe BHA.

MW 13.0, VIS 45, WL 5.2

10/22/2007 Current Depth: 5.296 Daily Cost: \$50.675 AFE Cost to Date: \$1.851.711

WO WASHOVER SHOE Current Status:

Continue PU 8-1/8" washpipe BHA.

TIH w/ 1-stand of 4-1/2" HWDP & install rotating head rubber.

TIH w/ 8-1/8" washpipe BHA using a wet plug & checking every connection. LD top jt on last 3 stands.

Make up kelly & wash to top of fish @ 4047'.

Wash & ream over top of fish @ 4047' to 4049'. Torque went away, unable to make any further headway.

Mix & pump slug, stand back kelly.

TOOH w/ washpipe BHA #1. Washover shoe was worn badly & marked w/ 3 distinct rings where it had been run on the top of the fish.

Access washshoe markings & discuss forward plan.

Wait on cut-rite dressed 30 deg mule shoe washover shoe / 5.5 hrs.

MW 13.1, VIS 50, WL 5.2

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

10/23/2007 Current Depth: 5,296 **Daily Cost:** \$39,081 AFE Cost to Date: \$1,890,792

TOOH **Current Status:**

Wait on cut rite dressed 30 deg mule shoe washover shoe. Weatherford delivered a crippled castle shoe. Make up 8-1/8" washpipe BHA w/ 8-3/8" crippled castle shoe & 2 its washpipe.

TIH w/ 1-stand of 4-1/2" HWDP & install rotating head rubber. TIH, slowly, w/ 8-1/8" washpipe BHA #2 using a wet plug to 4007'. Make up kelly & wash to top of fish @ 4047'.

Wash & work w/ kelly to top of fish @ 4047'. String taking weight & rotary table torqueing up.

Wash & work w/ kelly over top of fish @ 4047' @ 12:45 AM down to 4079'.

Make connection. Wash & work without kelly over top of fish @ 4047' @ 1:20 AM & down to 4110'. Circ bottoms up, mix & pump slug. Stand back kelly. TOOH slowly w/ washpipe BHA #2.

MW 13.0, VIS 54, WL 4.4

10/24/2007 Current Depth: 5.296 Daily Cost: \$67.859 AFE Cost to Date: \$1,958,651

TIH W/ WASHPIPE BHA #3 **Current Status:**

TOOH slowly w/ washpipe BHA #2. PU 1 jt washpipe & stand back 1-stand washpipe.

PU fishing BHA #3: 8-1/8" overshot w/ 6-1/4" mill control & grapple, pump out sub dressed w/ 1500 psi disc, bumper sub & fishing jars.

TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP. Install rotating head rubber.

TIH to 4011'.

PU 4-1/2" pup jt & 1jt 4-1/2" DP. Make up kelly & wash to 4050', tagged TOF 3' deep.

Slid over top of fish @ 1:10 PM on 1st try & secured grapple by working pipe f/ 165K# to 75K#. Stand back kelly.

RU Black Warrior wireline. Made dummy run w/ 1-11/16" sinker bars to 5132'. POOH.

RIH & freepoint w/ stretch readings @ 4123' / 80% free, 4201' / 100% stuck, 4180' / 100% stuck, 4162' / 70% free w/ stretch & 80% free w/ torque.

Make up string shot. RIH & back off @ 4135' WLM / 4139' DPM @ 1 jt HWDP above jars.

POOH & RD Black Warrior wireline.

LD 1 jt 4-1/2" DP & 4-1/2" pup jt, pump slug.

Chain out of hole w/ 8-1/8" overshot & fishing assembly.

Remove overshot & LD fish, recovered 3 jts 4-1/2" HWDP. LD overshot & pumpout sub.

PU 8-1/8" washpipe BHA #3 w/ 35 deg Cripple shoe.

TIH w/ 8-1/8" washpipe BHA #3 using a wet plug, checking every connection. Current TOF @ ~4139'.

MW 13.0, VIS 51, WL 4.4

10/25/2007 Current Depth: 5,296 Daily Cost: \$40.928 AFE Cost to Date: \$1,999,579

CHAIN OUT W/SCREW IN SUB FISHING ASSEMBLY **Current Status:**

TIH w/ 8-1/8" washpipe BHA #3 using wet plug & checking every connection. LD top jt on last 3-stands.

Make up kelly & wash to top of fish @ 4139'.

Attempt to wash over top of fish w/ kelly bushings 1' above rotary table, no good.

Single down 1jt DP w/ kelly & replace w/ 14.73 DP pup jt.

Wash & work over top of fish w/ kelly @ 4139'. Wash & ream down to 4263'.

Circ bottoms up, mix & pump slug. Stand back kelly.

TOOH slowly to washpipe BHA #3.

LD jars, bumper sub, 1 jt washpipe & crippled washover shoe. Stand back 1-stand of washpipe.

PU 4-1/2" XH screw in sub BHA #1. TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP.

TIH to 4106'.

PU 1 jt DP & make up kelly. Wash f/ 4106' to 4139' & screw into top of fish.

Stand back kelly & RU Black Warrior wireline.

Make up string shot. RIH & back off @ 4233' WLM / 4232' DPM (1 jt HWDP below drilling jars).

POOH. RD Black Warrior wireline.

LD 1 jt 4-1/2" DP & 4-1/2" pup jt. Pump slug. Chain out of hole w/ 4-1/2" XH screw in sub & fishing assembly.

MW 13.0, VIS 52, WL 4,4

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

AFE Number: 73606 Type: AA Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-FXP DRILLING

10/26/2007 Current Depth: 5.296 Daily Cost: AFE Cost to Date: \$0 \$1,999,579

Current Status: MONITORING WELL & WO ANNULAR RUBBER

Chain out of hole w/ 4-1/2" XH screw-in sub & fishing assembly. Break out screw-in sub & LD fish, recovered 2 jts 4-1/2" HWDP & drilling jars. LD screw in & pumpout sub. Make up 8-1/8" washpipe BHA #4 w/ reverse sawtooth shoe. TIH w/ 8-1/8" washpipe BHA #4 using a wet plug & checking every connection to 4227'. Make up kelly. Attempt to wash over top of fish w/ kelly bushings 3' above rotary table, no good. Single down 1-jt DP w/ kelly & replace w/ 14.73' DP pup jt. Wash & work over top of fish w/ kelly @ 4232'. Wash & ream down to 4292'. Wash & ream @ 4292' for 1 hr w/ no progress. Mix & pump slug. Stand back kelly. LD 2-jts 4-1/2" DP & 4-1/2" pup jt. TOOH w/ 5-stands DP & attempt to fill hole. Blew pop offs on each pump individually. Investigate reason for blown pop off valves. Found that kill line valve was staying closed even w/ stem in open position. Move kill line to wellhead outlet to fill pipe while TOOH. TOOH w/ 5-stands DP fill hole. First 2 fill ups took 3/4 bbl less than calculated. Check well for flow for 15 min, no flow. TOOH to 2294' (inside 9-5/8" surface casing). Pull cap on kill line check valve to attempt to inspect kill line valve, no good. Install check valve cap. TOOH to washpipe BHA #4. Mousehole jars & bumper sub, stand back 3 jts & LD 1 jt washpipe. Attempt to set test plug in wellhead to change out kill line valve. Annular rubber was torn up so badly that the test plug would not go through. Fill hole & monitor well while looking for an annular rubber.

MW 13.0, VIS 49

10/27/2007 Current Depth: Daily Cost: \$1,997 AFE Cost to Date: \$2,001,576

INSTALLING KILL LINE VALVE & CHECK VALVE **Current Status:**

Work on mud pumps & perform rig maintenance while waiting on new annular element. Monitor fluid level & check for flow, fluid level dropped 2' in 9 hrs. Close BOP blind rams. Remove flowline connection & annular bonnet nuts. Lift rotating head & bonnet. Remove bad annular rubber. Clean annular body, bonnet & studs. Prepare to install new annular element. Element arrived @ 8:30 PM. Install new annular element. Replace annular bonnet & reconnect flowline connection. RU Single Jack Testing & attempt to run test plug through annular preventor. Rubber was slightly protruding into annular bore, test plug would not pass. Function annular preventor 8 - 10 times & the amount of rubber protruding into the annular bore increased to 2" all the way around.

Found closing side accumulator line fitting broken. Replaced closing side fitting on annular preventor & functioned annular several times, annular opened good. Opened wellhead valve & set test plug, had to work test plug through new annular element. Removed kll line valve & check valve. Installed new kill line valve & old check valve. MW 13.0, VIS 48, WL 4.3

10/28/2007 Current Depth: 5,296 Daily Cost: \$36,456 AFE Cost to Date: \$2,038,032

TIH W/ SCREW IN SUB BHA #2 Current Status:

Finish tightening nuts on on kill line valves. Pres test annular to 250 psi low / 2500 psi high, OK. Prest test kill line valves to 250 psi low / 5000 psi high against pipe rams. RD Single Jack testers. Line up choke & kill line valves & install fill up

Make up 8-1/8" washpipe BHA #5 w/ wavy scallop shoe.

TIH w/ 8-1/8" washpipe BHA #5 using wet plug to 4232'. Make up kelly.

Wash & work over top of fish @ 4232' w/ kelly. Wash & ream down to 4292'.

Wash & ream f/ 4292' to 4294' in 1-1/2 hrs. Wash & ream f/ 4294' to 4352' in 2.5 hrs.

Mix & pump slug, stand back kelly. TOOH slowly to washpipe BHA #5. LD jars, bumper sub, 1 jt washpipe & wavy scallop washover shoe. Stand back 1-stand washpipe.

PU 4-1/2" XH screw in sub BHA #2 & TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP. TIH to 3848',

10/29/2007 Current Depth: 5,296 Daily Cost: \$46,644 AFE Cost to Date: \$2,084,676

MAKE UP WASH OVER BHA **Current Status:**

TIH w/ screw in sub to 4228'.

Make up kelly. Wash f/ 4228' to 4232' & screw into top of fish.

Beat down on fish w/ bumper sub to 90K# & jar up on fish w/ 220K#, pulling to 240K#/ 10.5 hrs.

RU Black Warrior wireline. Run free point, found pipe 98% stuck @ 4389', free @ 4348' tool joint. POOH. Make up back off shot. RIH & backed off pipe @ 4355' pipe measurement, 4348' wireline measurement. Pump 20 bbls slug & TOOH, chain out. Fill hole every 5-stands.

LD fish #3: 4 jts 4-1/2" HWDP. MW 13.0, VIS 51, WL 4.3

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32 AFE Number: 73606 Type: AA

Operator Cabot Oil & Gas Corporation Artesia Number: 430049001

Project Type: 1-EXP DRILLING

10/30/2007 Current Depth: 5,296 Daily Cost: \$28,771 AFE Cost to Date: \$2,113,447

Current Status: FREE POINT & BACK OFF DRILL STRING

Finish LD fishing tools. PU & ran 5 jts (150.68') of 8.125" washover pipe. TIH to 4350', checking each connection in string. Precautionary wash & ream to top of fish @ 4355'. Wash over top of fish. Continue washing over fish, set down on wash pipe drive sub @ 4510'. Washed over fish w/ no restrictions on last 20' f/ 4490' to 4510'. Circ hole clean, pump 20 bbls 14 ppg slug. TOOH, filling hole every 5 stands (dry). Make up screw in BHA & TIH to 4350'. Circ & screw into top of fish @ 4355'. Set off jars, no movement in fish. RU Black Warrior wireline to run free point & back off stuck drill string. MW 13.05, VIS 54, WL 4.0

10/31/2007 Current Depth: 5,296 Daily Cost: \$56,287 AFE Cost to Date: \$2,169,734

Current Status: SPOTTING CEMENT PLUGS TO P & A.

Jar down w/ 90K# & up w/ 220K# on fish, no movement. RU Black Warrior wireline. RIH w/ free point tools. Found fish 50% stuck @ 4495' & free @ tool jt @ 4478'. RIH w/ back off shot & backed off @ 4478'. 4 jts 4-1/2" HWDP ready to recover. RD Black Warrior wireline. Decision was made to P&A well, top of fish @ 4478'. Chained out of hole, filling hole every 5-stands. LD 4 jts 4-1/2" HWDP recovered in fishing operations. Clean off cat walk, LD fishing tools. Load out all Weatherford fishing tools & move off location. LD 2-stands DC, 2-stands 4-1/2" HWDP out of derrick & move off cat walk. Run 4-1/2" open ended DP out of derrick in hole to 3894'. PU 18 jts DP & TIH to 4465'. Circ hole @ 80 spm w/ 400 psi, condition hole for P&A cement plugs. Wait on Halliburton to arrive. RU Halliburton. Pres test pump & lines to 1500 psi. Pump 8 BW ahead of 13.38 bbls / 75 cf / 64 sks Class G cement (15.8 ppg) w/ 2% CaCl2. Displace / equalize plug w/ 2 BW & 57 bbls 13.0 ppg mud. CIP @ 6:30 AM, 10/31/07. Pulled out of top of cement @ 4315'. Pulled DP up to 4133' & circ

11/01/2007 Current Depth: 5,296 Daily Cost: \$313,738 AFE Cost to Date: \$2,483,472 Current Status: SPOT CEMENT PLUGS TO P&A WELL

Circ @ 3799' w/ 1 pump @ 80 spm. Wait on cement to harden / 3 hrs. RIH w/ DP & tag cement Plug #1 @ 4322' (witnessed by State of Utah). POOH & LD 13 jts 4-1/2" DP. RU Halliburton. Spot Plug #2 (across White Rim Sand 3650'-4050'): With pipe hanging @ 4050', pump 5 BW then 100 cf / 17.8 bbls / 85 sx Class G cement (15.8 ppg) w/ 2% CaCl2. Equalized plug w/ 2 BW & 48 bbls 13.0 ppg mud. Pulled DP up to 3830', pumped 5 BW then 100 cf / 17.8 bbls / 85 sx Class G (15.8 ppg) w/ 2% CaCl2. Equalized w/ 2 BW & 44 bbls 13.0 ppg mud. Pulled DP to 3133'. Circ @ 3133' w/ 1 pump @ 80 spm. Wait on cement to harden / 3 hrs. RIH w/ DP & tag cement Plug #2 too low @ 3784' (witnessed by State of Utah). State of Utah required setting another plug across the White Rim Sand. Pumped 5 BW then 67 cf / 12 bbls / 80 sx Class G cement (15.8 ppg) w/ 2% CaCl2. Equalized w/ 2 BW & 46 bbls 13.0 ppg mud. Pulled & LD DP to 3133', not required to tag top of plug. Circ DP & hole clean @ 80 spm w/ 1pump @ 3133'. Pull & LD DP f/ 3133' to 2627'. Circ, wait on more Halliburton cement to arrive on location / 4 hrs. Spot Plug #3 (across 9-5/8" surface csg shoe f/ 2470'-2620'): With DP @ 2627', pump 5 BW then 76 cf / 13.6 bbls / 65 sx Class G cement w/ 2% CaCl2. Pulled up to 2056', circ & wait on cement / 3 hrs. RIH w/ DP & tag cement Plug #3 too low @ 2521'. Spot 50' cement plug w/ 100% excess on top of Plug #3 inside 9-5/8" csg.

<u>11/02/2007</u> Current Depth: 5,296 Daily Cost: \$342,996 AFE Cost to Date: \$2,826,468 Current Status: RD UNITED RIG #41

Spot cmt Plug #3B: With DP @ 2500', pump 5 BW, 6.5 bbls / 36.5 cf / 43 sx Class G (15.8 ppg) w/ 2% CaCl2. Equalize w/ 2 BW & 28 bbls 13.0 ppg mud, CIP @ 6:12 AM, 11/1/07. Pulled f/ 2500' to 2120', circ @ 40 spm to clean DP & hole. POOH, LD DP f/ 2500' to 126'. Circ & condition for surface plug. Spot Plug #4 (surface plug) f/ 126' to surface w/ 2 BW ahead of 9.7 bbls / 54.6 cf / 64 sx Class G (15.8 ppg) w/2% CaCl2. POOH & LD DP. Top off hole w/ cement to surface. Cement is just below wellhead. RD Halliburton. McKenna #21-32 plugged & abandoned 11/1/07. CIP @ 11:50 AM, 11/1/07. ND BOPE, pressure wash BOPE.

05-Nov-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

Operator Cabot Oil & Gas Corporation AFE Number: 73606

Artesia Number: 430049001 Type: AA

Project Type:

1-EXP DRILLING

11/03/2007 Current Depth: 5,296 Daily Cost: \$25,932

AFE Cost to Date:

\$2,852,400

CLEAN MUD PITS & RD Current Status:

LD kelly, RD drill floor.

Transfer 13.0 ppg drilling mud f/ active mud pits to 500 bbl rental storage tank. Wait on orders for disposal,

Pressure wash mud pits.

Load & haul off 4 loads of United Drilling drill pipe.

Load out & haul off all rental survey equipt.

Load 18 jts Thomas Tool 4-1/2" HWDP & haul off location. Release & move off generator for mud cleaning equipment.

Cleaning, shovel out & pressure wash active mud pits.

11/04/2007

Current Depth:

Daily Cost: \$31,864 AFE Cost to Date:

\$2,884,264

Current Status:

LD DERRICK & PREP RIG TO MOVE

5,296

Clean mud pits, load out United Drilling truck w/ BOP equipment.

Load out & haul off all rental tools & equip.

Load out & haul off 2 loads of UDI drill pipe & drill collars.

RD Swaco gas buster & set on side of location. Need a big crane to RD mud cleaner prior to moving rig.

Welder cut off 11"-5Mx9-5/8" casinghead & installed dry hole marker on top of cut off casing.

Released rig @ 6:00 PM, 11/3/07.

Project Type:

9-PLUGGED

11/05/2007

Current Depth: 5,296 Daily Cost: \$16,500 AFE Cost to Date:

\$2,900,764

P & A'D 11-1-07 - FINAL REPORT **Current Status:**

LD derrick, unstring blocks, RD & drain all water & air systems. Finished cleaning premix mud tank. Change 6" valves on mud pits.

UDI trucks hauled off all remaining drill pipe & drill collars.

Rig 100% ready to move.

Drop From Report. FINAL REPORT

CONFIDENTIAL

				RTMEN		ATURA	L RES	OURCE: MININ	-			AN (hi	IENDED ighlight c EASE DES ML-483	IGNATION A	ND SE	FORM 8 ERIAL NUMBER:
		MPLE.	TION	OR I	RECC	MP	LETIC	ON R	EPOR	TAN	D LOG			ALLOTTEE O		
1a. TYPE OF WEL	r:	(WELL [GAS WELL		DRY		отн	R TIG	HT HOLE		JNIT or CA. Middle	AGREEMEN Mesa	Γ NAM	E
b. TYPE OF WOR NEW WELL	HORIZ. L	<u> </u>	EEP-]	RE- ENTRY]	DIFF. RESVR		ОТНІ	ER				and NUMB na 21-3		
NAME OF OPER Cabot Oil		Corp.										1	430373	• • •		
B. ADDRESS OF O	t., Ste. 9		сіту De	nver		STATE	E CO	ZIP			E NUMBER: 03) 226-9443	10 F		POOL, OR W	ALDCA	AT.
 LOCATION OF V AT SURFACE: 			686' F	WI								11.	QTR/QTR MERIDIAN:	SECTION, TO	SWVC	HIP, RANGE,
AT TOP PRODU												N	ENW	32 29)S 2	25E
AT TOTAL DEP	TH:												COUNTY San Jua	an	13	3. STATE UTAH
4. DATE SPUDDE 9/15/2007	D:	15. DATE 10/15	T.D. REAC	CHED:	16. DATI		LETED:	7	ABANDONE	D 🔽	READY TO PROD	JCE 🗍		ATIONS (DF,	RKB,	RT, GL):
8. TOTAL DEPTH:	MD 5,	296		19. PLUG	BACK T.E			<i>'</i>	20. IF N	ULTIPLE C	OMPLETIONS, HOW	V MANY? *	21. DEPT	H BRIDGE IG SET:	MD TVD	
2. TYPE ELECTRI	C AND OTH	ER MECHA	NICAL LO	GS RUN (Submit cop	oy of each	1)			WAS DST	LL CORED? RUN? DNAL SURVEY?	NO NO NO	✓ YE	≣s 🗍	(Subm	nit analysis) nit report) nit copy)
4. CASING AND L	INER RECO	RD (Report	all string	s set in w	ell)					·					<u> </u>	
HOLE SIZE	SIZE/GI	RADE	WEIGHT	(#/ft.)	TOP (MD)	вотто	OM (MD)		EMENTER PTH	CEMENTTYPE & NO. OF SACKS	VOLUM	RRY E (BBL)	CEMENT TO)P **	AMOUNT PULLED
12-1/4"	9-5/8"	J-55	36	#	0)	2,	545			820			0		
							_				<u> </u>	 				
							_					+			-	
TUDING PEGG	<u> </u>						l			-	<u></u>	<u> </u>	<u>_</u>			
5. TUBING RECOF		SET (MD)	PACK	ER SET (N	MD)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)	SIZE	DE	PTH SET (M	D) T	PACKER SET (MD)
6. PRODUCING IN											RATION RECORD					
FORMATION	NAME	TOP	(MD)	вотто	M (MD)	TOP	(TVD)	BOTTO	VI (TVD)	INTERVA	L (Top/Bot - MD)	SIZE	NO. HOLE		_	ATION STATUS
<u>'</u>								<u> </u>						Open [=-	Squeezed
s)								├						Open	Ϊ—	Squeezed
·)		 		 -				ļ						Open	╤—	Squeezed
))				<u> </u>				<u> </u>						Open	<u></u>	Squeezed
B. ACID, FRACTUR		IENT, CEMI	ENT SQUE	EEZE, ETC). 									 -		
DEPTH	NTERVAL		├ ─						AMO	UNT AND T	YPE OF MATERIAL					
			see	attach	ed Sur	ndry N	lotice									
			-													
. ENCLOSED ATT	ACHMENTS	S:	<u>. </u>				-				 _			30.	WELL	STATUS:
_	RICAL/MECH			001515	VEDIES	T101:	=		C REPORT	三	DST REPORT	DIREC	TIONAL SU	ı		P&A
MZ_I SUNDR	Y NOTICE F	UK PLUGG	AND DAIR	CEMENT	VERIFICA	HON	ш	CORE AN	ALYSIS	، لــا	OTHER:			\		

(CONTINUED ON BACK)

(5/2000)

RECEIVED

JAN 1 4 2008

DIV. OF OIL, GAS & MINING

31. INITIAL PRO	ODUCTION			INT	ERVAL A (As sho	wn in item #26)				
DATE FIRST PR	RODUCED:	TEST DATE	: :	HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRES	SS. API GRAV	/ITY BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
				INT	ERVAL B (As sho	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE	:	HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRES	SS. API GRAV	/ITY BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - 8BL:	INTERVAL STATUS:
				INT	ERVAL C (As sho	wn in item #26)				<u> </u>
DATE FIRST PR	ODUCED:	TEST DATE	<u>:</u>	HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	OKE SIZE: TBG. PRESS. CSG. PRESS. API GRAVITY		/ITY BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:	
	<u> </u>	<u></u>		INT	ERVAL D (As sho	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE	:	HOURS TESTED		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRES	SS. API GRAV	/ITY BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
32. DISPOSITIO	ON OF GAS (Sold,	, Used for Fue	el, Vented, Etc.)		·	<u> </u>	<u></u>			- 1 ,
33. SUMMARY	OF POROUS ZON	IES (Include A	Aquifers):			3	4. FORMATION	(Log) MARKERS:	 ,	
Show all importate tested, cushion u	nt zones of porosit ised, time tool ope	ty and content in, flowing and	s thereof: Cored i shut-in pressure	intervals and all drill-stem is and recoveries.	tests, including de	epth interval				
Formatio	on	Top (MD)	Bottom (MD)	Descrip	ions, Contents, etc			Name		Top (Measured Depth)
								·····		
]								
35. ADDITIONAL	L REMARKS (Incl	lude plugging	procedure)							
										•

This report must be submitted within 30 days of

Rolando

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well

DATE

significantly deepening an existing well bore below the previous bottom-hole depth

TITLE Contract Petroleum Engineer

12/13/2007

- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records,

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

SIGNATURE

Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

CONFIDENTIAL

FORM 9

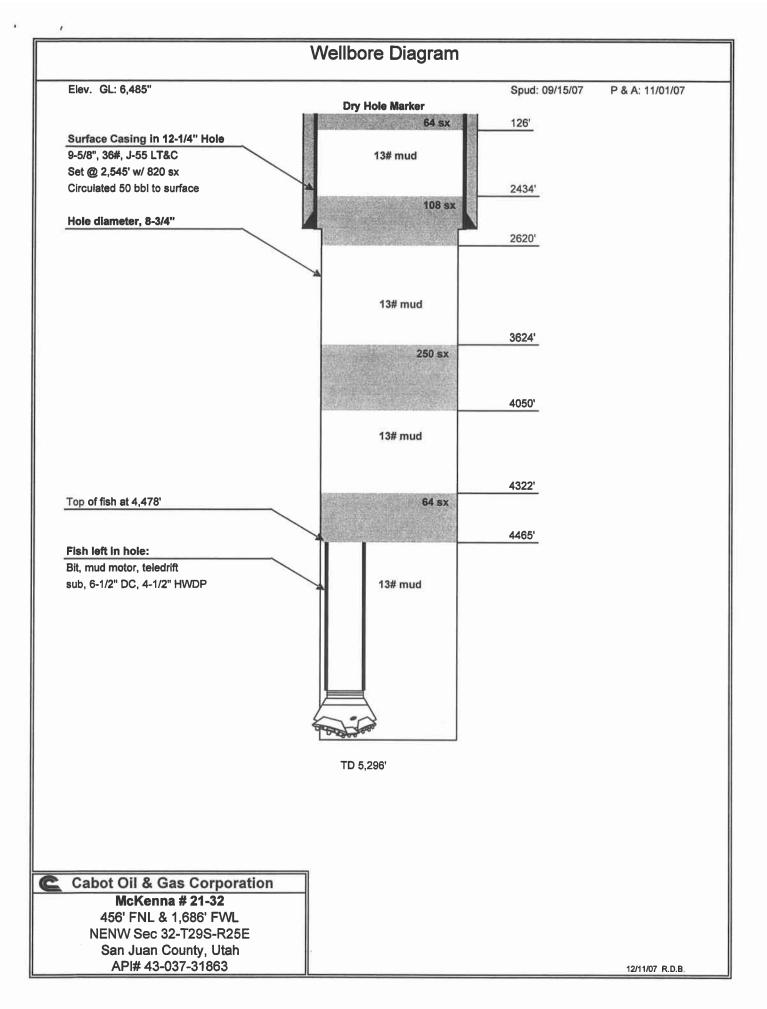
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

DIVIDION OF OIL, OAD AND MINING	ML-48351				
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME: Middle Mesa				
1. TYPE OF WELL OIL WELL GAS WELL OTHER TIGHT HOLE WELL	8. WELL NAME and NUMBER: McKenna 21-32				
2. NAME OF OPERATOR: Cabot Oil & Gas Corp.	9. API NUMBER: 4303731863				
3. ADDRESS OF OPERATOR: 600 17th St., Ste 900N CITY Denver STATE CO ZIP 80202 (303) 226-9443	10. FIELD AND POOL, OR WILDCAT: Wildcat				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 456' FNL & 1,686' FWL	COUNTY: San Juan				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 29S 25E	STATE: UTAH				
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA				
TYPE OF SUBMISSION TYPE OF ACTION					
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: CASING REPAIR CHANGE TO PREVIOUS PLANS DEEPEN FRACTURE TREAT NEW CONSTRUCTION OPERATOR CHANGE	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR				
CHANGE TUBING SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: CHANGE WELL NAME PLUG BACK PRODUCTION (START/RESUME) COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	VENT OR FLARE WATER DISPOSAL WATER SHUT-OFF OTHER:				
Attached is Cabot's report of the final plug and abandonment of McKenna #21-32. Below is 1) On 10/15/07 well was drilling at 5296' when drill string became differentially stuck. Fishing recovery. After 15 days of fishing operations, decision was made to plug and abandon the v 2) With top of fish at 4,478' a 64 sx 15.6 ppg Class G cement plug was set from 4465' to 432 3) 13 ppg mud was pumped between all plugs. 4) A 250 sx Class G cement plug was set from 4050' to 3624'. 5) A 108 sx Class G cement plug was set from 2620' to 2434' across the surface casing sho LT&C surface casing had been set at 2545' and cemented to surface with 820 sx of ceme 6) A 64 sx Class G surface cement plug was set in the 9-5/8 surface casing from 126' to surf 7) The wellhead was cut off and a dry hole marker was welded on the casing. 8) The surface will be restored and reseeded.	a summary: g operations resulted in partial vellbore. 22'. e at 2545'. (9-5/8", 36#, J-55, nt.)				
NAME (PLEASE PRINT) Rolando D. Benavides TITLE Contract Petroleu	m Engineer				
SIGNATURE DATE 12/13/2007					

RECEIVED

JAN 1 4 2008

DIV. OF OIL, GAS & MINING



04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

SAN JUAN County, UT

Program Year:

2007

Spud Date:

09/15/2007

Location:

SECTION 32, T29S, R25E

Prospect:

PARADOX

Formation: AFE DHC/CWC: ISMAY & HONAKER TRAIL

\$1,400,000 / \$2,150,000 Net AFE DHC/CWC: \$1,050,000 / \$1,612,500

TD:

PBTD:

Permit No:

BPO / APO:

Drop Date: COGC WI / NRI:

11/05/2007

75.00000% 75.00000%

67.50000% 75.00000%

P&A Date: Lease Number:

Date of First Prod:

Completion Date:

Rig/Contractor: Service Contractor: **UNITED RIG #41**

Pipeline:

AP! Number:

UWI:

GL / KB Elev: Rig Release:

6505 / 0 11/03/2007

4303731863

Project Type:

1-EXP DRILLING

09/09/2007 Current Depth:

Daily Cost:

\$136,737

AFE Cost to Date:

\$136,737

Current Status:

RIG UP UNITED RIG #41

Location & reserve pit built, pit lined, fenced, and full of water. 20" conductor, rat & mouse hole set. Received 24 loads of United Drilling Rig #41 to location, spot & unload rig components on new location. Set sub-base & steel mud tanks.

09/10/2007

Current Depth:

Daily Cost:

\$2,354

AFE Cost to Date:

\$139,091

Current Status:

RIGGING UP

Received 2 loads of rig components, assembled derrick (on the ground), set draw works on sub base, set mud pumps, generator house, water & fuel tanks. Released rig move trucks @ 12:00 noon, 9-Sept-07. A legs, cat walk, and traveling blocks will arrive today. Will set remainder of floor when A legs arrive. 75% RU.

09/11/2007

Current Depth:

Daily Cost:

\$10,430

AFE Cost to Date:

\$149,521

Current Status:

RIGGING UP UNITED RIG #41

Finished RU mud / fluid system. Filled all steel pits w/ reserve pit water. Primed up mud system & check for leaks. Wait on A legs to finish RU. A legs were inspected on Monday, 9/10/07. Legs are scheduled to be shipped today, 9/11/07.

09/12/2007

Current Depth:

Daily Cost:

\$3,945

AFE Cost to Date:

\$153,466

Current Status: RIGGING UP UNITED RIG #41

09/13/2007

Current Depth:

Current Depth:

Daily Cost:

\$29,854

AFE Cost to Date:

\$183,320

Current Status:

RIGGING UP UNITED RIG #41

A legs arrived @ 5:00 p.m. Off loaded newly inspected A legs & installed on derrick.

Wait on A legs to finish RU. Legs will be on location today, 9/12/07.

Daily Cost:

\$29,285

AFE Cost to Date:

\$212,605

09/14/2007 **Current Status:**

RIGGING UP UNITED RIG #41

Set A legs on rig floor. Moved derrick in place & moved onto rig floor. Set cat walk, upper dog house & 500 bbl water tank in place below rig. Released rig move trucks @ 1:00 PM, 9/13/07.

String up traveling blocks & rig up bridle lines. Should spud late today, 9/14/07.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

09/15/2007

Current Depth:

Daily Cost:

\$28,126

AFE Cost to Date:

Current Status:

DRILLING

Raised derrick, welded on drilling nipple & NU flowline. RU drill floor & PU kelly. OD, ID & strap BHA.

RU new kelly spinner.

Prime up all fluid pumps

Jet bit #1 & make up on 8" mud motor.

Spud 12-1/4" surface hole @ 4:00 AM, 9/15/07. Drill f/ 50' to 83', 33' / 2.0 hrs, 16.5 fph.

Lost 500 bbls water, add LCM. Extremly hard sandstone.

MW 8.4, VIS 26

REED Bit #1, 12 1/4", M4349P, in @ 50', made 33' in 2 hrs, ROP 16.5'

09/16/2007

Current Depth:

305 Daily Cost: \$38,504

AFE Cost to Date:

\$279,235

Current Status:

DRILLING

Drill 12-1/4" hole in hard sandstone f/ 83' to 88', 5' / 1.5 hrs, 3.3 fph.

Lost 100% circulation @ 88'. Pump 100 bbls premix gel w/ mica & cedar fiber LCM. Regain 100% circulation.

Drill f/ 88' to 120', 32' / 6.5 hrs, 4.9 fph, good circulation.

Drill f/ 120' to 136', 16' / 2.0 hrs, 8.0 fph. Drill f/ 136' to 148', 12' / 1 hr, 12.0 fph. Drill f/ 148' to 176', 28' / 2.0 hrs, 14.0 fph.

Drill f/ 176' to 188', 12' / 1.5 hrs, 8.0 fph.

Drill 12-1/4" hole in hard sandstone f/ 188' to 305', 117' / 6.0 hrs, 19.5 fph.

REED Bit #1, 12 1/4", M4349P, in @ 50', made 255' in 22.5 hrs, ROP 11.3'

09/17/2007

Current Depth:

Daily Cost:

\$30,652

AFE Cost to Date:

\$309,887

Current Status:

DRILLING

Drill 12-1/4" hole in hard sandstone f/ 305' to 395', 90' / 3.0 hrs, 30.0 fph.

Drill f/ 395' to 498', 103' / 5.0 hrs, 20.6 fph.

Work tight hole @ 498', pump 25 bbl gel sweep.

Drill f/ 498' to 517', 19' / 0.5 hr, 38.0 fph.

Drill f/ 517' to 548', 31' / 1.5 hrs, 20.7 fph.

Drill f/ 548' to 658', 110' / 6.0 hrs, 18.3 fph. Drill f/ 658' to 763', 105' / 6.0 hrs, 17.5 fph.

MW 8.4, VIS 28

REED Bit #1, 12 1/4", M4349P, in @ 50', made 713' in 44.5 hrs, ROP 16.0'

Survey:

MD 517 Angle

1.00

09/18/2007

Current Depth:

1,120 Daily Cost:

\$56,497

AFE Cost to Date:

\$366,384

Current Status: DRILLING

Drill from 763' to 793', ROP down to 12 fph. Pump sweep & circ hole clean. TOH, had tight hole from 670' to 480'. MU type 5-4-7 bit & TiH. Precautionary wash & ream from 700' to 793'. No fill on bottom, no tight hole. Drill from 793' to 1120'. ROP increased to 23 fph with new bit. WLS 1 deg at 1009'.

09/19/2007

Current Depth:

Daily Cost:

\$33,142

AFE Cost to Date:

\$399,526

Current Status: DRILLING

Drill from 1120' to 1591'. Drilled into softer formation at 1110' and ROP increased significantly. Lost complete returns at 1474', 1533' & 1568'. Was able to regain circulation each time with gel & LCM. Lost returns again at 1591', unable to regain circ or fill hole. POOH to let hole heal, LD motor & Teledrift tool, and increase LCM conc in mud system. WLS 1 deg at 1533'.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

09/20/2007

Current Depth: 1,786 Daily Cost: \$46,185 AFE Cost to Date:

\$445,711

Current Status:

DRILLING

TOOH, LD 8" mud motor & teledrift tool.

Mix 20#/bbl LCM to 150 bbls pre-mix gel in pre-mix tank. Pump down & filled up hole, fluid static.

PU double box lead DC & make up bit #2.

TIH, break circ @ 800'. TIH to 1560', precautionary wash & ream f/ 1560' to 1591', no fill on bottom, no tight spots, 100% circulation. Bypassed shakers to keep LCM in system.

Drill f/ 1591' to 1616', 25' / 1 hr, 25.0 fph. Controll drill due to losses w/ 1-pump only.

Lost circ (100%). Mix pre-mix gel & LCM @ 35%, pump 150 bbls, regain full circ.

Drill f/ 1616' to 1676', 60' / 2.0 hrs, 30.0 fph, lost 100% circ.

Mix & pump prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1676' to 1683', lost 100% circ.

Mix & pump 150 bbls prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1683' to 1702', 19' / 0.5 hr, 38.0 fph, full circ.
Drill f/ 1702' to 1722', 20' / 0.5 hr, 40.0 fph, lost 100% circ.

Mix & pump 130 bbls prehydrated gel & 30 #/bbl LCM. Regained full circ.

Drill f/ 1722' to 1754', 32' / 1 hr, 32.0 fph. Lost 100% circ.

Mix & pump 130 bbls prehydrated gel & 30 #/bbl LCM, regained full circ.

Drill f/ 1754' to 1786', 32' / 1 hr, 32.0 fph. Lost circ, attempt to regain circ.

09/21/2007

Current Depth:

2,080

Daily Cost:

\$43,169

AFE Cost to Date:

\$488,880

Current Status:

DRILLING

Build up surface water volume in preparation to drill without returns. Drill from 1786' to 1817' with no circulation, got full circulation back at 1817'. Drill from 1817' to 2080' with full circulation. Bit jets plugged & blew pressure sensor off standpipe. POOH to unplug bit and repair standpipe. WLS 3/4 deg at 2016'.

09/22/2007

Current Depth:

Daily Cost:

\$30,251

AFE Cost to Date:

\$519,131

Current Status:

DRILLING

TOOH, unplug 2-jet nozzles in bit & repair stand pipe. TIH, precautionary wash & ream f/ 2050' to 2080'. No tight spots, no fill

Drill 12-1/4" hole f/ 2080' to 2170', 90' / 6.0 hrs, 15.0 fph.

Drill f/ 2170' to 2247', 77' / 6.0 hrs, 12.8 fph.

Drill f/ 2247' to 2400', 153' / 6.0 hrs, 25.5 fph, 100% circulation.

Switched flow across shakers @ 5:00 AM to help locate top of Chinle formation (should be red in color).

HTC Bit #2, 12 1/4", HR-S30C, in @ 793', made 1,607' in 77.0 hrs, ROP 21.1.

VIS MW

09/23/2007

8.6

15.0

WL

Current Depth:

2.545 Daily Cost: \$29,400

AFE Cost to Date:

\$548,531

Current Status:

45

TOOH.

Drill 12-1/4" hole f/ 2400' to 2495', 95' / 9.0 hrs, 10.6 fph. Top of Chinle @ 2470'. Drill f/ 2495' to 2510', 15' / 2.0 hrs, 7.5 fph. Drill f/ 2510' to 2545', 35' / 6.0 hrs, 5.8 fph. Circ hole clean, full circulation. Wipe hole f/ 2545' to 230' to top of 6" DC, no excessive tight hole. Circ hole clean, full circulation across shaker. TOOH to run surface casing.

HTC Bit #2, 12 1/4", HR-S30C, in @ 793', out @ 2,545', made 1,752' in 93.0 hrs, ROP 18.8.

MW VIS

8.6

45

ANGLE

W

15.0

MD 2521'

0.50



Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

09/24/2007

Current Depth: 2,545 Daily Cost:

\$145,565

Current Status:

NU BOPE.

TOOH, LD 8" DC & shock tool. RU casing crew & PU machine.

Ran 55 jts 9-5/8", 36#, J-55, LT&C casing w/ float shoe & float collar @ 2496'.

Ran 8-centralizers: one centralizer on first 3 jts, then one centralizer every other it

Broke circulation @ 1200'. Landed 9-5/8" casing @ 2545' Circ casing w/ full circulation. RD casing crew & RU BJ Services.

Pres test pump & lines to 2500 psi. Pumped 30 bbls gel spacer, 10 BW, then lead cement: 271 sx / 725 cf / 134 bbls Premium Lite FM w/ additives @ 11.0 ppg followed by tail cement: 549 sx / 770 cf / 137 bbls Type III w/ additives @ 14.5 ppg. Dropped top rubber plug & displaced w/ 193.5 BW. Bumped plug w/ 1250 psi, float held.

Had full returns, circ 50 bbls cement to surface. Monitor cement fall back in annulus, cement fell back 5' below rotary table. Clean cellar, prep for welder. Weld on 11"-5Mx9-5/8" SOW casinghead. Pres test weld to 1000 psi. NU BOP stack.

Cir 50 661 4

820 sx

MW VIS 8.4 26

WL 0.00

09/25/2007

Current Depth:

2,545 Daily Cost: \$30,626

AFE Cost to Date:

\$724,722

Current Status: PRESSURE TEST BOPE.

NU 11"X5m BOP

Dump & clean LCM & cuttings out of mud pits. Fill pits w/ reserve pit water. NU rotating head.

Welder finished installing new choke line, kill line & vent lines to flare pit.

Changed liners in #1 & #2 mud pumps to 4-1/2".

09/26/2007

Current Depth:

2,545

Daily Cost:

\$28,215

AFE Cost to Date:

\$752.937

Current Status:

PRESSURE TEST BOPE.

Finish installing new 4-1/2" liners in both mud pumps. Weld & connect flow line f/ rotating head to flow ditch. Pres test upper & lower rams, TIW valves, dart valve & floor TIW valves to 250 psi low/ 5 min & 5000 psi high/ 10 min. Floor TIW valve failed to test, have new one on the way. Set C22 test plug in FMC 11"-5M casinghead. New HCR valve arrived, installed on choke line side. Pres test casing to 1700 psi/ 30 min, OK. Continue testing kill & choke valves to 250 psi / 5 min, 5000 psi / 10 min. Repair & retighten leaking flanges. Welder rebuilt choke line to manifold after installation of HCR valve. Pres test to 5000 psi, OK. BOP testing 80% complete.

09/27/2007

Current Depth:

2,780

Daily Cost:

\$36,466

AFE Cost to Date:

\$789,403

Current Status:

DRILLING

Pres test all choke manifold valves, blind rams & replacement TIW valve to 250 psi low/ 5 min & 5000 psi high/ 10 min, OK. Pres test annular to 250 psi low/ 5 min & 2500 psi high/ 10 min, OK. PU & make up new 8-3/4" PDC Bit, mud motor & teledrift tool. TIH w/ BHA. Installed new rubber in rotating head. Drill cement, float collar @ 2496', cement & float shoe @ 2545'. Drill 10' of new hole f/ 2545' to 2555'. Circ hole clean. RU testers. Perform formation integrity test @ 2555' w/ 8.4 ppg water & 150 psi surface pressure, 9.5 ppg EMW. Drill 8-3/4" hole f/ 2555' to 2780', 225' / 5.5 hrs, 40.9 fph in Chinle. MW 8.4

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 235' in 5.5 hrs, ROP 42.7

9.5 x .052 x 2555

= 1,262.17 psi

8,4 × .052 × 2525 + 130 = 1,266.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

Current Status:

Current Depth: 3,595 Daily Cost:

\$37,873

AFE Cost to Date:

\$827,276

09/28/2007

DRILLING

Drill 8-3/4" hole f/ 2780' to 2982', 202' / 5.0 hrs. 40.4 fph.

Drill f/ 2982' to 3014', 32' / 1 hr, 32.0 fph.

Drill f/ 3014' to 3105', 91' / 4.5 hrs, 20.2 fph in Moenkopi. Drill f/ 3105' to 3204', 99' / 2.0 hrs, 49.5 fph. Drill f/ 3204' to 3327', 123' / 3.0 hrs, 41.0 fph. Drill f/ 3327' to 3521', 194' / 4.0 hrs, 48.5 fph. Drill f/ 3521' to 3595', 74' / 1.5 hrs, 49.3 fph.

MW 8.65, VIS 38, WL 25

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1050' in 27 hrs, ROP 38.9

Survey:

MD Angle 3014 0.00 3521 0.50

09/29/2007

Current Depth:

3,701

Daily Cost: \$41,419 AFE Cost to Date:

\$868,695

Current Status:

REBUILD SURFACE MUD VOLUME TO KILL WEIGHT

Drill 8-3/4" hole f/ 3595' to 3615', 20' / 0.5 hr, 40.0 fph.

Drill f/ 3615' to 3701', 86' / 1.5 hrs, 57.3 fph, well started flowing (water flow in White Rim sandstone).

Drill crew shut in well, SI @ 9:10 AM, 9/28/07 w/ 406 psi SIDPP & 600 psi SICP w/ 10 bbl gain, 9.3 ppg mud wt.

Lubricate rubber in annular, set slips in rotary, rotate drill string @ 19 RPM.

Mix surface pits to 11.6 ppg w/ barite for kill wt mud.

Pump 11.6 ppg kill wt mud w/ returns through choke & loaded hole.

Opened well, well flowing 1-1/2" stream out of choke line w/ FP 100 psi. SI well & check pressure, SIDPP 0 psi, SICP 100 psi.

Recalculated mud weight needed to kill well @ 12.2 ppg. Start rebuilding surface mud pit volume.

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1156' in 29 hrs, ROP 39.9

09/30/2007

Current Depth:

3,869

Daily Cost:

\$44,382

AFE Cost to Date:

\$913,077

Current Status:

CHANGE ANNULAR RUBBER

Circ & condition surface mud, raise mud weight to 12.2 ppg.

Kill well on choke w/ 12.2 ppg mud, recovered the 11.6 ppg circ out of hole & transferred to pre mix tank for weight up. Well dead, no flow, pipe free.

Circ w/ one pump, work pipe, flow check well, no flow.

Drill 8-3/4" hole f/ 3701' to 3806', 105' / 2.5 hrs, 42.0 fph.

Drill f/ 3806' to 3869', 63' / 1.5 hrs, 42.0 fph in White Rim sand.

Circ hole clean, raise mud weight in pre mix tank to 12.6 ppg (for +0.3 ppg trip margin).

Installed / changed out new union & transducer on stand pipe for teledrift survey unit.

Spot 12.6 ppg mud in hole.

TOOH w/ bit to 2435', inside casing shoe @ 2545'.

Monitor well for flow, no flow.

MW 12.2, VIS 55, WL 14.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1324' in 33 hrs, ROP 40.1

Survey:

MD Angle

3868 1.00

Finish TOOH, check for flow, no flow.

Clean up / wash down BOP stack. Pull flowline.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number: 73606 Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/01/2007

Current Depth:

Daily Cost: \$35,043

AFE Cost to Date:

\$948,120

Current Status:

RAISE MUD WT TO KILL WELL

Pulled off rotating head & flowline. Closed blind rams on BOP, unbolt top of 11"- 5M annular preventor. Changed rubber sealing element inside annular preventor. RU Single Jack Testing service. Opened HCR valve & blind rams. Well started flowing, could not set test plug in wellhead to test annular preventor. Well flowing 1.5" stream out choke line w/ 120 psi on gauge. Pulled flowline (no valves on flow line) back to rotating head. Ordered double box bit sub bored for float valve. Lay line f/ auto choke on manifold to pre mix mud tank to monitor & gauge mud returns. Made up new bit, bit sub w/ float, 1-jt DP, HWDP & regular DP & strip in hole. Recovered mud through choke manifold to pre mix mud tank. Water broke into mud column, turned to straight water, diverted water through choke to reserve pit. Continue stripping in hole w/ bit to 3638'. Closed annular & pulled rubber out of rotating head. Lubricate annular rubber w/ motor oil, rotating string @ 20 RPM. MW 12.3, VIS 47, WO 17.0

10/02/2007

Current Depth:

3,869

Daily Cost:

\$42,302

AFE Cost to Date:

\$990,422

Current Status:

TIH W/ DRILLING BHA

Circ & condition surface mud volume, raise mud weight to 12.9+ ppg. Pump kill weight mud down DP w/ returns through choke. Well dead, flow check well. PU new DP & TIH to 3689', hit tight hole. Circ & condition mud through full open choke to mud pits, keeping mud wt @ 12.9 ppg. Installed flowline off rotating head, finish circ & conditioning over shakers. Mix & spot 50 bbl pill of 13.5 ppg heavy slug mud down DP. TOOH, filling pipe every 3 stands, no over pull, no tight spots, no flow. TIH w/ drilling BHA. MW 13.0, VIS 44, WL 17.0

10/03/2007

Current Depth:

4.040

Daily Cost:

\$48,986

AFE Cost to Date:

\$1,039,408

Current Status:

PREP TO TOOH

TIH, tag tight hole @ 3716'.

Wash & ream f/ 3700' to 3869' w/ full circulation, no loss, no flow. Drill 8-3/4" hole f/ 3869' to 3933', 64' / 3 hrs / 21.3 fph in Cutler.

Drill f/ 3933' to 4005', 72' / 6.0 hrs, 12.0 fph, hard sandstone.

Drill f/ 4005' to 4016', 11' / 2.0 hrs, 5.5 fph.

Drill f/ 4016' to 4040', 24' / 3.0 hrs, 8.0 fph.

MW 12.7, VIS 41, WL 15.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', made 1495' in 44 hrs. ROP 34.0

Survey: MD

Angle 1.50

3996'

10/04/2007

Current Depth:

4,110

Daily Cost:

\$46,665

AFE Cost to Date:

\$1,086,073

Current Status: DRILLING

Drill 8-3/4" hole f/ 4040' to 4058', 18' / 2.5 hrs, 7.2 fph.

Circ hole clean, mix & pump 30 bbls 13.5 ppg dry job slug down DP.

TOOH, no flow, hole took proper fill up.

Change bits, PU bit #4.

TIH to 3998'. Precautionary wash & ream to 4058', no fill on bottom, no tight spots.

Drill f/ 4058' to 4083', 25' / 5.5 hrs, 4.5 fph.

Drill f/ 4083' to 4110', 27' / 6.0 hrs, 4.5 fph in Cutler.

MW 13.0, VIS 44, WL 14.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', out @ 4058', made 1513' in 46.5 hrs, ROP 32.5

REED Bit #4, 8 3/4", R27P, in @ 4058', made 52' in 11.5 hrs, ROP 4.5

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number: 73606 Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/05/2007

Current Depth:

4,221 Daily Cost:

\$29,326

AFE Cost to Date:

\$1,115,399

Current Status: DRILLING

Drill 8-3/4" hole f/ 4110' to 4114', 4' / 1.25 hrs, 3.2 fph. Drill f/ 4114' to 4116', 2' / 0.5 hr, 4.0 fph. Circ bottoms up, pump 30 bbls, 13.5 ppg dry job slug. TOOH. Break off bit & LD mud motor. Re-nozzle bit, make up bit, bit sub & teledrift. TIH, precautionary wash & ream f/ 4085' to 4116', no fill, no tight spots, no flow. Drill 8-3/4" hole f/ 4116' to 4157', 41' / 5.5 hrs, 7.5 fph. Drill f/ 4157' to 4221', 64' / 6.0 hrs, 10.7 fph in Cutler. MW 13.0, VIS 55, WL 12.0

SMITH Bit #3, 8 3/4", M616YSPX, in @ 2545', out @ 4058', made 1513' in 46.5 hrs, ROP 32.5

REED Bit #4, 8 3/4", R27P, in @ 4058', made 163' in 24.75 hrs, ROP 6.6

10/06/2007

Current Depth:

4,395

Daily Cost:

\$34,613

AFE Cost to Date:

\$1,150,012

Current Status:

DRILLING

Drill 8-3/4" hole f/ 4221' to 4225', 4' / 1 hr, 4.0 fph. Lost pump pressure, pres down to 400 psi. Work on both mud pumps bad valves in both pumps.

Drill f/ 4225' to 4232' w/ one mud pump, 7' / 1.5 hrs, 4.7 fph.

Drill f/ 4232' to 4305', 73' / 8.0 hrs, 9.1 fph.

Drill f/ 4305' to 4346', 41' / 6.0 hrs, 6.8 fph.

Drill f/ 4346' to 4395', 49' / 6.0 hrs, 8.2 fph in Cutler. MW 13.0, VIS 55, WL 14.0

REED Bit #4, 8 3/4", R27P, in @ 4058', made 337' in 47.25 hrs, ROP 7.1

10/07/2007

Current Depth: 4,481 Daily Cost:

\$39,972

AFE Cost to Date:

\$1,189,984

Current Status:

TIH W/ NEW BIT.

Drill f/ 4474' to 4481', 7'/ 2.0 hrs, 3.5 fph.

Drill 8-3/4" f/ 4395' to 4474', 79'/ 11.5 hrs, 6.9 fph. TOOH. TIH w/ bit #5.

MW 13.1, VIS 61, WL 11.7

REED Bit #4, 8 3/4", R27P, in @ 4058', OUT @ 4481', made 423' in 61.00 hrs, ROP 6.9

4,481

REED Bit #5, 8 3/4", R27P, in @ 4,481'.

10/08/2007

Current Depth:

Daily Cost:

\$13,198

AFE Cost to Date:

\$1,203,182

Current Status:

REPAIR RIG.

TIH w/ bit #5 to 4437'. Troubleshoot & attempted to repair #1 mud pump (clutch was burned up). Dumped 20 sx barite @ pump suction & TOOH to 2476' inside of 9-5/8" casing shoe. Repaired clutch & drive coupling on premix tank centrifugal pump. Replaced active system hopper centrifugal pump. Replaced clutch plates in #1 mud pump motor (#1 mud pump clutch would not engage fully). Troubleshoot & attempted to repair #1 mud pump. (pneumatic clutch soleniod was broken & bypassing air). Wait on pneumatic clutch soleniod. Raised mud wieght in active to 13.1 ppg & mixed mud in premix pit.

MW 12.9, VIS 50, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481'.

10/09/2007

Current Depth:

4,517

Daily Cost:

\$23,581

AFE Cost to Date:

\$1,226,763

Current Status:

DRILLING

Wait on pneumatic clutch solenoid. Found that clutch plates on #1 mud pump were installed too tight. Reinstall clutch plates properly & reroute air lines through pneumatic clutch solenoid.

TIH to 4437'. Precaution wash & ream f/ 4437' to 4481', had 1.5' of fill. Drill 8-3/4" hole f/ 4481' to 4492', 11' / 6.0 hrs, 1.8 fph. Drill f/ 4492' to 4517', 25' / 5.5 hrs, 4.5 fph in Cutler.

MW 13.2, VIS 61, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 36' in 11.5 hrs, ROP 3.1.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number: 73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

Project Type:

1-EXP DRILLING

430049001

10/10/2007

Current Depth: 4,593 Daily Cost:

\$30,821

AFE Cost to Date:

\$1,257,584

Current Status: DRILLING

Drill 8-3/4" hole f/ 4517' to 4537', 20' / 1.5 hrs, 13.3 fph.

Drill f/ 4537' to 4560', 23' / 7.0 hrs, 3.3 fph. Dry out & adjust drawworks brake bands.

Drill f/ 4560' to 4579', 19' / 7.5 hrs, 2.5 fph. Drill f/ 4579' to 4580', 1' / 0.5 hr, 2.0 fph. Drill f/ 4580' to 4581', 1' / 0.5 hr, 2.0 fph.

Change 2-swabs, 1-liner & packing in #1 mud pump/ 2 hrs.

Drill f/ 4581' to 4593', 12' / 3.5 hrs, 3.4 fph.

MW 13.0, VIS 53, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 112' in 32 hrs, ROP 3.5.

Survey:

MD 4496 0.75

10/11/2007

Current Depth:

4,596

Daily Cost:

\$16,708

AFE Cost to Date:

\$1,274,292

Current Status:

TOOH

Drill 8-3/4" hole f/ 4593' to 4596', 3' / 1 hr, 3.0 fph in Cutler.

Change swab in #2 mud pump, found hole in mud line spool just below standpipe connection.

RU hose to bypass standpipe, mix & pump slug.

TOOH to 2377' inside of 9-5/8" casing shoe.

Wait on welder & new mud line pipe. Remove bad mud line spool & check both mud pumps.

Build new mud line. Install new pneumatic clutch solenoid on #1 mud pump motor.

Build & install new mud line f/ mud pump bumper hose to standpipe in subbase.

Test new mud line against upper kellycock to 3000psi for 10 min, OK. Install fillup & cellar jet lines. Repair pop off valve on #2 mud pump.

TOOH for PDC bit & mud motor.

MW 13.1, VIS 50, WL 11.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', made 115' in 33 hrs, ROP 3.5.

10/12/2007

Current Depth:

4,757

Daily Cost:

\$51,003

AFE Cost to Date:

\$1,325,295

Current Status:

DRILLING

TOOH for PDC bit & mud motor.

LD bit #5, bit sub & teledrift sub.

PU bit #6, mud motor & teledrift sub.

TIH to 4561', make up kelly & break circ. Precautionary wash & ream f/ 4561' to 4596', had 3' of fill.

Drill 8-3/4" hole f/ 4596' to 4690', 94' / 7.5 hrs, 12.5 fph.

Drill f/ 4690' to 4757', 67' / 6 hrs, 11.2 fph.

MW 12.9, VIS 53, WL 13.0

REED Bit #5, 8 3/4", R27P, in @ 4,481', out @ 4596', made 115' in 33 hrs, ROP 3.5.

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 161' in 13.5 hrs, ROP 11.9'

10/13/2007

Current Depth:

Daily Cost:

\$46,142

AFE Cost to Date:

\$1,371,437

Current Status:

DRILLING

Drill 8-3/4" hole f/ 4757' to 4789', 32' / 6.5 hrs, 4.9 fph. Drill f/ 4789' to 4914', 126' / 11.0 hrs, 11.5 fph. Drill f/ 4914' to 4953', 39' / 6.0 hrs, 6.5 fph.

MW 13.0, VIS 45, WL 15.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 357' in 37.0 hrs. ROP 9.6.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/14/2007

Current Depth: 5,072 Daily Cost:

\$32,544

AFE Cost to Date:

\$1,403,981

Current Status:

DRILLING

Drill 8-3/4" hole f/ 4953' to 4979', 26' / 3.5 hrs, 7.4 fph. Drill f/ 4979' to 5011', 32' / 3.0 hrs, 10.7 fph. Circ & teledrift survey @ 4968' on 2nd try, worked stuck pipe free after survey/ 5 min.

Drill f/ 5011' to 5035', 24' / 7.0 hrs, 3.4 fph. Drill f/ 5035' to 5048', 13' / 2.5 hrs, 5.2 fph. Drill f/ 5048' to 5072', 24' / 6.0 hrs, 4.0 fph in Cutler.

MW 13.1, VIS 44, WL 16.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 476' in 59.0 hrs, ROP 8.1.

MD

ANGLE

4968' 3.00

10/15/2007

Current Depth:

5,262 Daily Cost: \$37,495

AFE Cost to Date:

\$1,441,476

Current Status:

DRILLING

Drill 8-3/4" hole f/ 5072' to 5105', 33' / 7.5 hrs, 4.4 fph. Drill f/ 5105' to 5122', 17' / 2.5 hrs, 6.8 fph. Drill f/ 5122' to 5203', 81' / 6.5 hrs, 12.5 fph. Drill f/ 5203' to 5262', 59' / 6.0 hrs, 9.8 fph in Cutler.

MW 13.1, VIS 58, WL 10.0

SMITH Bit #6, 8 3/4", M1616VX, in @ 4596', made 666' in 81.5 hrs, ROP 8.2.

10/16/2007

Current Depth:

5,296 Daily Cost: \$37,369

AFE Cost to Date:

\$1,478,845

Current Status: PREP TO PUMP BLACK MAGIC DOWN HOLE

Drill 8-3/4" hole f/ 5262' to 5296', 34' / 5.0 hrs, 6.8 fph.

Circ & teledrift survey twice @ 5245'. Worked stuck pipe loose after each survey.

Service rig. Pipe stuck w/ kelly bushing above rotary table after servicing rig.

Work & jar on stuck pipe. Jar down & intermittantly attempt to rotate pipe in table w/ DC slips.

Work & jar on stuck pipe while mixing & weighting up Black Magic.

MW 13.1, VIS 47, WL 17.0

Survey:

MD

Angle 3.00

5245

10/17/2007

Current Depth:

5.296 Daily Cost:

\$54,255

AFE Cost to Date:

\$1,533,100

Current Status:

PUMP BLACK MAGIC

Work & jar on stuck pipe while mixing & weighting up Black Magic.

Spotted 46 bbls of 13.0 ppg Black Magic (15 bbls Black Magic inside pipe & calc top outside pipe @ 4640').

Placed 95K# down weight w/ 2-1/2 wraps of torque in pipe.

Pumped & moved 1 bbl Black Magic every hour/ 10 hrs.

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs (calc top of Black Magic @ 4491').

Work & jar on stuck pipe while waiting on Black Warrior wireline.

Pumped & moved 1bb! Black Magic every hour/ 2 hrs.

U Black Warrior wireline.

RIH to 4503' w/ freepoint tool, stop & check @ 3004' / 100% free.

Freepoint @ 4503', 4314', 4259' & 4190' (1st jt HWDP below jars) / all 100% stuck.

Freepoint @ 3004' / 100% free, 3802' / 75% free, 4016' / 55% free & 4127' (1st HWDP above jars) / 50% free.

POOH & RD Black Warrior wireline.

Pumped Black Magic 840' up hole w/ 1230 pump strokes. Calc top of Black Magic @ 3651' & calc bottom @ 4491'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 2 hrs.

MW 13.1, VIS 50, WL 15.0

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/18/2007

Current Depth:

5.296 Daily Cost: \$70,386

AFE Cost to Date:

\$1,603,486

Current Status:

WORKING & JARRING STUCK PIPE WHILE RU WACO MUD CLEANER

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 3 hrs. Work & jar stuck pipe while Swaco RU mud cleaner & pumps/ 21 hrs. Finished mixing new batch of 13.0 ppg Black Magic @ 3:00 AM. Plan to lower solids & water loss in mud & spot Black Magic across BHA.

Daily Cost:

10/19/2007

Current Depth:

5,296

\$64,540

AFE Cost to Date:

\$1,668,026

Current Status:

WORK & CIRC PIPE WHILE MIXING BLACK MAGIC

Work & jar stuck pipe while circ hole & Swaco RU mud cleaner & pumps/ 7.5 hrs.

Work pipe intermittantly while circulating & conditioning mud/ 6.5 hrs. Ran mud cleaner for 3 hrs.

Sart pumping Black Magic downhole. Pumped 424 strokes (16 bbls) & found premix tank empty. Discovered that 87 bbls Black Magic leaked by a closed suction valve back into the suction pit (active pits completely full). Dump sandtrap to lower pit volume. Work & jar stuck pipe every 30 min while circulating hole. Start filling premix tank w/ diesel to mix another 103 bbl batch of Black Magic. Work & jar stuck pipe every 30 min while circ hole/ 6 hrs.

MW 13.0; Vis 42; API WL 6.0

10/20/2007

Current Depth:

5,296

Daily Cost:

\$71,000

AFE Cost to Date:

\$1,739,026

Current Status:

WORK & JARRING STUCK PIPE

Work & jar stuck pipe every 30 min while circulating hole, finish adding barite to Black Magic, 13.0 ppg. Spot 103 bbls of 13.0 ppg Black Magic (25 bbls inside pipe & calc top outside pipe @ 3780'.

Placed 95K# down weight w/ 3 wraps of torque in pipe. Pumped & moved 1 bbl Black Magic every hour/ 6 hrs. Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour/ 14 hrs. MW 13.0. VIS 44, WL 5.2

10/21/2007

Current Depth:

5,296

Daily Cost:

\$62,010

AFE Cost to Date:

\$1,801,036

Current Status:

PU 6 1/2" DRILL COLLARS

Work & jar on stuck pipe. Pumped & moved 1 bbl Black Magic every hour / 3 hrs.

Inspect derrick after repeated jarring, OK

RU Black Warrior wireline.

RIH w/ freepoint tool & found 3516' / 100% free, 3868' / 90% free, 4021' (5 its down in HWDP) / 65% free, 4145' (1st HWDP above jars) / 45% free & 4206' (1st HWDP below jars) / 100% stuck.

POOH w/ freepoint tool & make up string shot #1. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off. POOH. Make up string shot #2. RIH & attempt back off @ 4133' WLM / 4139' DPM, no back off. POOH. Make up string shot #3. RIH & back off @ 4045' WLM / 4047' DPM (4 jts HWDP above jars). POOH & RD Black Warrior wireline. Pump slug & TOOH w/ 5stands DP. Drill pipe slips not holding, 1-slip die was broken. Replaced all slip dies w/ new dies / 1.5 hrs. TOOH w/ 36-stands DP & 5 jts HWDP. Fish left in hole: Bit, mud motor, teledrift sub, (3) 6-1/2" DC, (30) 4-1/2" HWDP, 6-1/2" jars, (4) 4-1/2" HWDP total 1210.80'. PU 8-1/8" washpipe BHA.

MW 13.0, VIS 45, WL 5.2

10/22/2007

Current Depth:

5.296

Daily Cost:

\$50,675

AFE Cost to Date:

\$1,851,711

Current Status:

WO WASHOVER SHOE

Continue PU 8-1/8" washpipe BHA.

TIH w/ 1-stand of 4-1/2" HWDP & install rotating head rubber.

TIH w/ 8-1/8" washpipe BHA using a wet plug & checking every connection. LD top jt on last 3 stands.

Make up kelly & wash to top of fish @ 4047'.

Wash & ream over top of fish @ 4047' to 4049'. Torque went away, unable to make any further headway.

Mix & pump slug, stand back kelly.

TOOH w/ washpipe BHA #1. Washover shoe was worn badly & marked w/ 3 distinct rings where it had been run on the top of the fish.

Access washshoe markings & discuss forward plan.

Wait on cut-rite dressed 30 deg mule shoe washover shoe / 5.5 hrs.

MW 13.1, VIS 50, WL 5.2

04-Dec-07

Region Name: Rocky Mountain

Well Name: MCKI

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

5,296

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/23/2007

Current Depth:

Daily Cost:

\$39,081

AFE Cost to Date:

\$1,890,792

Current Status:

TOOH

Wait on cut rite dressed 30 deg mule shoe washover shoe. Weatherford delivered a crippled castle shoe. Make up 8-1/8" washpipe BHA w/ 8-3/8" crippled castle shoe & 2 jts washpipe.

TIH w/1-stand of 4-1/2" HWDP & install rotating head rubber. TIH, slowly, w/ 8-1/8" washpipe BHA #2 using a wet plug to 4007'. Make up kelly & wash to top of fish @ 4047'.

Wash & work w/ kelly to top of fish @ 4047'. String taking weight & rotary table torqueing up.

Wash & work w/ kelly over top of fish @ 4047' @ 12:45 AM down to 4079'.

Make connection. Wash & work without kelly over top of fish @ 4047' @ 1:20 AM & down to 4110'. Circ bottoms up, mix & pump slug. Stand back kelly. TOOH slowly w/ washpipe BHA #2.

MW 13.0, VIS 54, WL 4.4

10/24/2007

Current Depth:

5,296

Daily Cost:

\$67,859

AFE Cost to Date:

\$1,958,651

Current Status:

TIH W/ WASHPIPE BHA #3

TOOH slowly w/ washpipe BHA #2. PU 1 jt washpipe & stand back 1-stand washpipe.

PU fishing BHA #3: 8-1/8" overshot w/ 6-1/4" mill control & grapple, pump out sub dressed w/ 1500 psi disc, bumper sub & fishing jars.

TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP. Install rotating head rubber.

TIH to 4011'.

PU 4-1/2" pup jt & 1jt 4-1/2" DP. Make up kelly & wash to 4050', tagged TOF 3' deep.

Slid over top of fish @ 1:10 PM on 1st try & secured grapple by working pipe f/ 165K# to 75K#. Stand back kelly.

RU Black Warrior wireline. Made dummy run w/ 1-11/16" sinker bars to 5132'. POOH.

RIH & freepoint w/ stretch readings @ 4123' / 80% free, 4201' / 100% stuck, 4180' / 100% stuck, 4162' / 70% free w/ stretch & 80% free w/ torque.

Make up string shot. RIH & back off @ 4135' WLM / 4139' DPM @ 1 jt HWDP above jars.

POOH & RD Black Warrior wireline.

LD 1 jt 4-1/2" DP & 4-1/2" pup jt, pump slug.

Chain out of hole w/ 8-1/8" overshot & fishing assembly.

Remove overshot & LD fish, recovered 3 jts 4-1/2" HWDP. LD overshot & pumpout sub.

PU 8-1/8" washpipe BHA #3 w/ 35 deg Cripple shoe.

TIH w/ 8-1/8" washpipe BHA #3 using a wet plug, checking every connection. Current TOF @ ~4139'.

MW 13.0, VIS 51, WL 4.4

10/25/2007

Current Depth:

5,296

Daily Cost:

\$40,928

AFE Cost to Date:

\$1,999,579

Current Status:

CHAIN OUT W/SCREW IN SUB FISHING ASSEMBLY

TIH w/ 8-1/8" washpipe BHA #3 using wet plug & checking every connection. LD top jt on last 3-stands.

Make up kelly & wash to top of fish @ 4139'.

Attempt to wash over top of fish w/ kelly bushings 1' above rotary table, no good.

Single down 1jt DP w/ kelly & replace w/ 14.73' DP pup jt.

Wash & work over top of fish w/ kelly @ 4139'. Wash & ream down to 4263'.

Circ bottoms up, mix & pump slug. Stand back kelly.

TOOH slowly to washpipe BHA #3.

LD jars, bumper sub, 1 jt washpipe & crippled washover shoe. Stand back 1-stand of washpipe.

PU 4-1/2" XH screw in sub BHA #1. TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP.

TIH to 4106'.

PU 1 jt DP & make up kelly. Wash f/ 4106' to 4139' & screw into top of fish.

Stand back kelly & RU Black Warrior wireline.

Make up string shot. RIH & back off @ 4233' WLM / 4232' DPM (1 jt HWDP below drilling jars).

POOH. RD Black Warrior wireline.

LD 1 jt 4-1/2" DP & 4-1/2" pup jt. Pump slug.

Chain out of hole w/ 4-1/2" XH screw in sub & fishing assembly.

MW 13.0, VIS 52, WL 4.4

04-Dec-07

Region Name: Rocky Mountain

Well Name: MCKENNA #21-32

0-1-40400-0

AFE Number: 73606

6

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

10/26/2007

Current Depth: 5,296

Daily Cost:

\$0

AFE Cost to Date:

\$1,999,579

Current Status:

MONITORING WELL & WO ANNULAR RUBBER

Chain out of hole w/ 4-1/2" XH screw-in sub & fishing assembly. Break out screw-in sub & LD fish, recovered 2 jts 4-1/2" HWDP & drilling jars. LD screw in & pumpout sub. Make up 8-1/8" washpipe BHA #4 w/ reverse sawtooth shoe. TIH w/ 8-1/8" washpipe BHA #4 using a wet plug & checking every connection to 4227'. Make up kelly. Attempt to wash over top of fish w/ kelly bushings 3' above rotary table, no good. Single down 1-jt DP w/ kelly & replace w/ 14.73' DP pup jt. Wash & work over top of fish w/ kelly @ 4232'. Wash & ream down to 4292'. Wash & ream @ 4292' for 1 hr w/ no progress. Mix & pump slug. Stand back kelly. LD 2-jts 4-1/2" DP & 4-1/2" pup jt. TOOH w/ 5-stands DP & attempt to fill hole. Blew pop offs on each pump individually. Investigate reason for blown pop off valves. Found that kill line valve was staying closed even w/ stem in open position. Move kill line to wellhead outlet to fill pipe while TOOH. TOOH w/ 5-stands DP fill hole. First 2 fill ups took 3/4 bbl less than calculated. Check well for flow for 15 min, no flow. TOOH to 2294' (inside 9-5/8" surface casing). Pull cap on kill line check valve to attempt to inspect kill line valve, no good. Install check valve cap. TOOH to washpipe BHA #4. Mousehole jars & bumper sub, stand back 3 jts & LD 1 jt washpipe. Attempt to set test plug in wellhead to change out kill line valve. Annular rubber was torn up so badly that the test plug would not go through. Fill hole & monitor well while looking for an annular rubber. MW 13.0, VIS 49

10/27/2007

Current Depth:

5,296

Daily Cost:

\$1,997

AFE Cost to Date:

\$2,001,576

Current Status:

INSTALLING KILL LINE VALVE & CHECK VALVE

Work on mud pumps & perform rig maintenance while waiting on new annular element. Monitor fluid level & check for flow, fluid level dropped 2' in 9 hrs. Close BOP blind rams. Remove flowline connection & annular bonnet nuts. Lift rotating head & bonnet. Remove bad annular rubber. Clean annular body, bonnet & studs. Prepare to install new annular element. Element arrived @ 8:30 PM. Install new annular element. Replace annular bonnet & reconnect flowline connection. RU Single Jack Testing & attempt to run test plug through annular preventor. Rubber was slightly protruding into annular bore, test plug would not pass. Function annular preventor 8 - 10 times & the amount of rubber protruding into the annular bore increased to 2" all the way around.

Found closing side accumulator line fitting broken. Replaced closing side fitting on annular preventor & functioned annular several times, annular opened good. Opened wellhead valve & set test plug, had to work test plug through new annular element. Removed kll line valve & check valve. Installed new kill line valve & old check valve.

MW 13.0, VIS 48, WL 4.3

10/28/2007

Current Depth:

5,296

Daily Cost:

\$36,456

AFE Cost to Date:

\$2,038,032

Current Status:

TIH W/ SCREW IN SUB BHA #2

Finish tightening nuts on on kill line valves. Pres test annular to 250 psi low / 2500 psi high, OK. Prest test kill line valves to 250 psi low / 5000 psi high against pipe rams. RD Single Jack testers. Line up choke & kill line valves & install fill up line. Make up 8-1/8" washpipe BHA #5 w/ wavy scallop shoe.

TIH w/ 8-1/8" washpipe BHA #5 using wet plug to 4232'. Make up kelly.

Wash & work over top of fish @ 4232' w/ kelly. Wash & ream down to 4292'.

Wash & ream f/ 4292' to 4294' in 1-1/2 hrs. Wash & ream f/ 4294' to 4352' in 2.5 hrs.

Mix & pump slug, stand back kelly. TOOH slowly to washpipe BHA #5. LD jars, bumper sub, 1 jt washpipe & wavy scallop washover shoe. Stand back 1-stand washpipe.

PU 4-1/2" XH screw in sub BHA #2 & TIH w/ 2-stands 6-1/4" DC & 1-stand 4-1/2" HWDP. TIH to 3848'.

MW 13.0, VIS 50, WL 4.3

10/29/2007

Current Depth:

5,296

Daily Cost:

\$46,644

AFE Cost to Date:

\$2,084,676

Current Status:

MAKE UP WASH OVER BHA

TIH w/ screw in sub to 4228'.

Make up kelly. Wash f/ 4228' to 4232' & screw into top of fish.

Beat down on fish w/ bumper sub to 90K# & jar up on fish w/ 220K#, pulling to 240K#/ 10.5 hrs.

RU Black Warrior wireline. Run free point, found pipe 98% stuck @ 4389', free @ 4348' tool joint. POOH. Make up back off shot. RIH & backed off pipe @ 4355' pipe measurement, 4348' wireline measurement. Pump 20 bbls slug & TOOH, chain out. Fill hole every 5-stands.

LD fish #3: 4 jts 4-1/2" HWDP. MW 13.0, VIS 51, WL 4.3

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

Type: AA

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type: 10/30/2007

1-EXP DRILLING

Current Depth:

Daily Cost:

\$28,771

AFE Cost to Date:

\$2,113,447

Current Status:

FREE POINT & BACK OFF DRILL STRING

Finish LD fishing tools. PU & ran 5 jts (150.68') of 8.125" washover pipe. TIH to 4350', checking each connection in string. Precautionary wash & ream to top of fish @ 4355'. Wash over top of fish. Continue washing over fish, set down on wash pipe drive sub @ 4510'. Washed over fish w/ no restrictions on last 20' f/ 4490' to 4510'. Circ hole clean, pump 20 bbls 14 ppg slug. TOOH, filling hole every 5 stands (dry). Make up screw in BHA & TIH to 4350'. Circ & screw into top of fish @ 4355'. Set off jars, no movement in fish. RU Black Warrior wireline to run free point & back off stuck drill string. MW 13.05, VIS 54, WL 4.0

10/31/2007

Current Depth:

5,296

5,296

Daily Cost:

\$56,287

AFE Cost to Date:

\$2,169,734

Current Status:

SPOTTING CEMENT PLUGS TO P & A.

Jar down w/ 90K# & up w/ 220K# on fish, no movement. RU Black Warrior wireline. RIH w/ free point tools. Found fish 50% stuck @ 4495' & free @ tool it @ 4478'. RIH w/ back off shot & backed off @ 4478'. 4 its 4-1/2" HWDP ready to recover. RD Black Warrior wireline. Decision was made to P&A well, top of fish @ 4478'. Chained out of hole, filling hole every 5-stands. LD 4 its 4-1/2" HWDP recovered in fishing operations. Clean off cat walk, LD fishing tools. Load out all Weatherford fishing tools & move off location. LD 2-stands DC, 2-stands 4-1/2" HWDP out of derrick & move off cat walk. Run 4-1/2" open ended DP out of derrick in hole to 3894'. PU 18 its DP & TIH to 4465'. Circ hole @ 80 spm w/ 400 psi, condition hole for P&A cement plugs. Wait on Halliburton to arrive. RU Halliburton. Pres test pump & lines to 1500 psi. Pump 8 BW ahead of 13.38 bbls / 75 cf / 64 sks Class G cement (15.8 ppg) w/ 2% CaCl2. Displace / equalize plug w/ 2 BW & 57 bbls 13.0 ppg mud. CIP @ 6:30 AM, 10/31/07. Pulled out of top of cement @ 4315'. Pulled DP up to 4133' & circ hole. Cement plug #1: 4315' - 4465'.

11/01/2007

Current Depth:

5,296

Daily Cost:

\$313,738

AFE Cost to Date:

\$2,483,472

Current Status:

SPOT CEMENT PLUGS TO P&A WELL

Circ @ 3799' w/ 1 pump @ 80 spm. Wait on cement to harden / 3 hrs. RIH w/ DP & tag cement Plug #1 @ 4322' (witnessed by State of Utah). POOH & LD 13 its 4-1/2" DP. RU Halliburton. Spot Plug #2 (across White Rim Sand 3650-4050): With pipe hanging @ 4050', pump 5 BW then 100 cf / 17.8 bbls / 85 sx Class G cement (15.8 ppg) w/ 2% CaCl2. Equalized plug w/ 2 BW & 48 bbls 13.0 ppg mud. Pulled DP up to 3830', pumped 5 BW then 100 cf / 17.8 bbls / 85 sx Class G (15.8 ppg) w/ 2% CaCl2. Equalized w/ 2 BW & 44 bbls 13.0 ppg mud. Pulled DP to 3133'. Circ @ 3133' w/ 1 pump @ 80 spm. Wait on cement to harden /3 hrs. RIH w/ DP & tag cement Plug #2 too low @ 3784' (witnessed by State of Utah). State of Utah required setting another plug across the White Rim Sand. Pumped 5 BW then 67 cf / 12 bbls / 80 sx Class G cement (15.8 ppg) w/ 2% CaCl2. Equalized w/ 2 BW & 46 bbls 13.0 ppg mud. Pulled & LD DP to 3133', not required to tag top of plug. Circ DP & hole clean @ 80 spm w/ 1pump @ 3133'. Pull & LD DP f/ 3133' to 2627'. Circ, wait on more Halliburton cement to arrive on location / 4 hrs. Spot Plug #3 (across 9-5/8" surface csg shoe f/ 2470'-2620'): With DP @ 2627', pump 5 BW then 76 cf / 13.6 bbls / 65 sx Class G cement w/ 2% CaCl2. Pulled up to 2056', circ & wait on cement / 3 hrs. RIH w/ DP & tag cement Plug #3 too low @ 2521'. Spot 50' cement plug w/ 100% excess on top of Plug #3 inside 9-5/8" csg.

11/02/2007

Current Depth:

5,296

Daily Cost:

\$342,996

AFE Cost to Date:

\$2,826,468

Current Status:

RD UNITED RIG #41

Spot cmt Plug #3B: With DP @ 2500', pump 5 BW, 6.5 bbls / 36.5 cf / 43 sx Class G (15.8 ppg) w/ 2% CaCl2. Equalize w/ 2 BW & 28 bbls 13.0 ppg mud, CIP @ 6:12 AM, 11/1/07. Pulled f/ 2500 to 2120, circ @ 40 spm to clean DP & hole. POOH, LD DP f/ 2500' to 126'. Circ & condition for surface plug. Spot Plug #4 (surface plug) f/ 126' to surface w/ 2 BW ahead of 9.7 bbls / 54.6 cf / 64 sx Class G (15.8 ppg) w/2% CaCl2. POOH & LD DP. Top off hole w/ cement to surface. Cement is just below wellhead. RD Halliburton. McKenna #21-32 plugged & abandoned 11/1/07. CIP @ 11:50 AM, 11/1/07. ND BOPE, pressure wash BOPE.

Ply #3 togg at 2521 2470-0 65 SX Spot 50 W/1002 excess
on top t play 3

Play #3B 2500' 43 s

P/u # Z Pipe at 4050' 85 sx Clas G pipe at 3830' 85 sx Cl

Page 13 of 14 Tay at 3784

Surface plug #4 126 to surf.

04-Dec-07

Region Name: Rocky Mountain

Well Name:

MCKENNA #21-32

AFE Number:

73606

AΑ Type:

Operator

Cabot Oil & Gas Corporation

Artesia Number:

430049001

Project Type:

1-EXP DRILLING

11/03/2007

Current Depth: 5,296 Daily Cost:

\$25,932

AFE Cost to Date:

\$2,852,400

Current Status:

CLEAN MUD PITS & RD

LD kelly, RD drill floor.

Transfer 13.0 ppg drilling mud f/ active mud pits to 500 bbl rental storage tank. Wait on orders for disposal.

Pressure wash mud pits.

Load & haul off 4 loads of United Drilling drill pipe.

Load out & haul off all rental survey equipt.

Load 18 jts Thomas Tool 4-1/2" HWDP & haul off location. Release & move off generator for mud cleaning equipment. Cleaning, shovel out & pressure wash active mud pits.

11/04/2007

Current Depth:

5,296

Daily Cost:

\$31,864

AFE Cost to Date:

\$2,884,264

Current Status:

LD DERRICK & PREP RIG TO MOVE

Clean mud pits, load out United Drilling truck w/ BOP equipment.

Load out & haul off all rental tools & equip.

Load out & haul off 2 loads of UDI drill pipe & drill collars.

RD Swaco gas buster & set on side of location. Need a big crane to RD mud cleaner prior to moving rig.

Welder cut off 11"-5Mx9-5/8" casinghead & installed dry hole marker on top of cut off casing.

Released rig @ 6:00 PM, 11/3/07.

Project Type:

9-PLUGGED

11/05/2007

Current Depth: 5,296

Daily Cost:

\$16,500

AFE Cost to Date:

\$2,900,764

Current Status:

P & A'D 11-1-07 - FINAL REPORT

LD derrick, unstring blocks, RD & drain all water & air systems. Finished cleaning premix mud tank. Change 6" valves on mud pits.

UDI trucks hauled off all remaining drill pipe & drill collars.

Rig 100% ready to move.

Drop From Report. FINAL REPORT

Project Type:

8-DROPPED

11/06/2007 Current Depth:

5,296

Daily Cost:

\$0

AFE Cost to Date:

\$2,900,764

Current Status:

P & A'D 11-1-07 - FINAL REPORT

Drop From Report. FINAL REPORT

Cementing Job Summary

	00444			la		Road to		ellenc			h Safet	<u>Y</u>		5.4.	Ondon	4. 5	4000	
Sold To #:						260963			Quot					Sale	Order	#: 54	403U	52
Customer:			. & GA	SPROL	<u>NC.</u>				Cust	omer	Rep: M	oore						
Well Name	: McK	enna						21-32					APUU					
Field:			Cit	ty (SAP): UI	NKNOW	1	Count	y/Pari	sh: Sa	an Juan			State	: Utah			
Legal Desc	riptio	n: Sec	ction 32	? Town:	ship	29S Ran	ige 2	5E										
Contractor						Rig/Platt			/Num	: Unit	ed #41							
Job Purpo																		
Well Type:				00		Job Typ	o- Ph	io to A	hande	yn Ser	vice							
Sales Pers		onig .	Ten			Srvc Su							DIL ID E	mn #	12251	<u> </u>		
Sales Feis	011:		•			SIVE SU		Job Pe			LOO	144	DO ID L	лир ж	. 12201			
1450 5	41		F 11	T =		1156					F	_	HEC F	4		·	421	
HES Em		ie .	Exp Hn			TALLMAN				op Hrs	Emp # 122519		ckell, and	mp N	ame	0.0	Hrs	Emp # 369053
PEREZ, DI			0.0	41359	1	IALLMAI	V, JE	99 L	- 10	.0	122519	<u> </u>	скен, ан	лу		0.0		308033
WOOD, B	RANDO	MM	0.0	41275	3													
								Equi	pmen									
HES Unit #	Dis	tance-	1 way	HES U				way		3 Unit			-1 way		Unit#	Di	stan	e-1 way
10241534	195	mile		102480	68	195 mil	e		1071	3212	195	mile		1082	3383	199	5 mile	;
						·		Job	Hour	<u> </u>			······································					
Date	On	Locati	on O	perating	ī	Date		On Loc			erating	1	Date	C	n Locat	ion	O	perating
2400		Hours	•	Hours	1			Hou			lours	1			Hours			Hours
										1	·	1						·
TOTAL	1		····						Total i	s the s	um of ea	ch c	iumn se	paratel	y		.	<u></u>
-				Job						1	****			ob Tin				
Formation N	ame		·							1		T	Da		Tin	ne	Ti	ne Zone
Formation D		MD)	go			Botto	m			Calle	d Out	_	30 - Oct					MST
Form Type	-		<u>-F</u>]	e	HST			T			ocation	_	31 - Oct				1	MST
Job depth M	D		4465. ft			epth TVD		446	5. ft		tarted		31 - Oct					MST
Water Depth						Above F		4	. ft		omplet	ıd	01 - Nov					MST
Perforation		(MD) F	rom			То					rted Loc		01 - Nov					MST
		3						Wel	Data								L	
Descripti	OB	New /	Ma	Y S	ize	ID	Weig			hread		Gr	ide To	op MD	Botto	20	Top	Bottom
Doodripa		Used	1		in	in	lbm/		•			-		ft	MD	- 1	TVD	TVD
			ps	1		 -		·			1		1		ft	- }	ft	ft
Surface Cas	ing	Used			625	8.921	36.					J-	55		2545			
8 3/4 Open 1						8.75								2545.	4479		• • • • • • • • • • • • • • • • • • • •	1
Drill Pipe		Used			.5	3.826	16.6	3				````	(4478			†
Cement Plug		Used												3650.	4050	-		
Cement Plug		Used									T	-		2470.	2620	.		İ
Cement Plug	L	Used		L <u>_</u>		<u></u>		l						:	100.	_		1
		<i>_</i>					Tool	s and	Acces	sorie		_					-	
Туре	Size	Qty	Make	Deptt	1	Туре	Siz	e Q	ty i	Vake	Depth		Туре	_] "	Size	Q	lty	Make
Guide Shoe	******		J			cker							Plug	-	- 1	.		
Float Shoe						dge Plug							tom Plug					
Float Collar					Re	tainer							plug se					
nsert Float			<u></u>									Plu	Contai	ner				
Stage Tool				1					T			Cer	tralizers					
						A	Aisce	Hanec	ous M	ateria	ls							
Selling Agt			Co	nc		Surfac				Cor	1C	Aci	d Type		Qt			Conc %
reatment F	d		Co	nc	1	Inhibit	ОГ			Cor	16	Sai	nd Type	Ţ	Siz			Otty

Cementing Job Summary

		Flui	id Data						
S	tage/Plug #: 1			.,			···········		
Fluid #		. Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk		Total Mix Fluid Gal/sk
1	Fresh Water Ahead		08.303	bbt	8.33	.0	.0	.0	
2	Plug Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	64.0	sacks	15.6	1.18	5.23		5.23
	94 lbm	CMT - PREMIUM - CLASS G REG OR TY	PE V, BL	ILK (100	003685)				
	5.225 Gal	FRESH WATER							
3	Fresh Water Behind	,	01.697	bbl	8.33	.0	.0	.0	
4	Displacement		59.95	bbl	8.33	.0	.0	.0	
5	Top Out	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	47.0	sacks	15.6	1.18	5.23		5.23
_	94 lbm	CMT - PREMIUM - CLASS G REG OR TY	PE V, BL	ILK (100	003685)				
	5.225 Gai	FRESH WATER							
S	tage/Plug #: 2								
Fluid #		Fluid Name	Qty	Qty uom	Mixing Density uom	Yield	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water Ahead		08.303	Idef	8.33	.0	.0	.0	
2	Plug Cement	CMT PREMIUM - CLASS G, 94 LB SK (100003685)	167.0	sacks	15.6	1.2	5.26		5.26
	94 lbm	CMT - PREMIUM - CLASS G REG OR TY	PE V, BL	JLK (100	003685)				
	2%	CALCIUM CHLORIDE - HI TEST PELLET	(100005	053)					
	5.258 Gal	FRESH WATER							
3	Fresh Water Behind		01.697	bbl	8.33	.0	.0	.0	
4	Displacement		50.31	bbi	8.33	.0	.0	.0	
S	tage/Plug #: 3								
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water Ahead		08.372	bbi	8.33	.0	.0	.0	
2	Plug Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	65.0	sacks	15.6	1.18	5.23		5.23
	94 lbm	CMT - PREMIUM - CLASS G REG OR TY	PE V, BL	JLK (100	003685)				
	5.225 Gal	FRESH WATER							
3	Fresh Water Behind		01.628	bbl	8.33	.0	.0	.0	
4	Displacement		33.59	ры	8.33	.0	.0	.0	
S	tage/Plug #: 4								
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water Ahead			ppl	8.33	.0	.0	.0	

Summit Version: 7.20.130

Cementing Job Summary

St	age/Plug	#; 4													
Fluid #	Stage 1			Fluid Name				Qty	Qty uom	Mixing Density Ibm/gal	Yield fl3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sl	
2	Plug Cen	nent		- PREMIL (3685)	IM - CL	ASS G	, 94 L	B SK	42.0	sacks	15.6	1.18	5.23		5.23
	94 lbm		CMT	PREMIL	M - CL	ASS G	REG	OR TY	PE V, BL	ILK (100	003685)				
	5.225 Ga	1	FRES	H WATE	R										
3	Displace	ment								bbi	8.33	.0	.0	.0	
Ca	iculated	Value		P	ressu	96					V	olumes			
Displa	Xisplacement S			hut in: in	stant	Lost R			turns	T	Cement S	lurry		Pad	
Top O	Cement		5	5 Min			Cement Returns			Actual Di	spiacem	ent	Treatn	ent	
Frac G	radient		11	5 Min				Spacer	8		Load and	Breakdo	רואיכ	Total .	lob
								R	ates						
Circu	lating			Mi	ing				Displa	cement			Avg. J	ob	
Cem	ent Left ir	Pipe	Amo	ınt 01	Rea	SON S	Shoe	Joint							
Frac I	Ring #1@	2	10	Fract	ing # 2	2	10	<u> </u>	Frac Ri	ng # 3 @	1	D	Frac Ring	#4@	ID
Tł	ne Inform	nation	State	d Here	in Is (Соптес	:t	Custon	ner Repres	aville S	1				
			· · · · · · · · · · · · · · · · · · ·					(1	//	ENT.	3604	6		

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 301145	Ship To #: 2609631	Quote #:	Sales Order #: 5463052
Customer: CABOT OIL & GAS	PRODUCTION CORP	Customer Rep:	Moore, Dave
Well Name: McKenna	Weil #:	21-32	APVUWI #:
Field: City	(SAP): UNKNOWN Co	ounty/Parish: San Jua	n State: Utah
Legal Description: Section 32	Township 29S Range 25	E	
Lat: N 0 deg. OR N 0 deg. 0 mi	n. 0 secs.	Long: E 0 deg.	OR E 0 deg. 0 min. 0 secs.
Contractor: United Drilling Co.	Rig/Platform N	lame/Num: United #4	1
Job Purpose: Plug to Abandon	Service		Ticket Amount:
Well Type: Producing Well	Job Type: Plug	to Abandon Service	
Sales Person:	Srvc Supervis	or: TALLMAN, JESS	MBU ID Emp #: 122519

Activity Description	Date/Time	Cht	Rate bbV min	Vola bi	ume bi		sure sig	Comments
		#		Stage	Total	Tubing	Casing	
Call Out	10/30/2007 18:30							
Depart Yard Safety Meeting	10/30/2007 21:05							
Arrive at Location from Service Center	10/31/2007 02:30							
Safety Meeting - Assessment of Location	10/31/2007 02:35							
Unknown Event Number	10/31/2007 02:40							spot equipment
Safety Meeting - Pre Rig-Down	10/31/2007 02:45							
Rig-Up Equipment	10/31/2007 02:50							
Safety Meeting - Pre Job	10/31/2007 04:45							
Start Job	10/31/2007 05:34							1 plug from 4465 to 4315
Test Lines	10/31/2007 05:35						1500. 0	
Pump Spacer 1	10/31/2007 05:37		3	8			220.0	
Pump Cement	10/31/2007 05:45		3	13.4			290.0	
Pump Spacer 2	10/31/2007 05:50		3	2			200.0	
Pump Displacement	10/31/2007 05:51		3	57.5			100.0	
Safety Meeting - Pre Job	10/31/2007 11:15							
Start Job	10/31/2007 11:32							2 plug from 4050 to 3650
Pump Spacer 1	10/31/2007 11:33		3	8			200.0	

Sold To #: 301145

Ship To #:2609631

Quote # :

Sales Order # :

5463052

SUMMIT Version: 7.20.130

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min	•	ume bi	1	sure sig	Comments
				Stage	Total	Tubing	Casing	
Pump Cement	10/31/2007 11:39		3	17.5			140.0	
Pump Spacer 2	10/31/2007 11:46		3	2			100.0	
Pump Displacement	10/31/2007 11:46		3	48			100.0	
Unknown Event Number	10/31/2007 12:03							pull 7 joints get ready for 2nd half of plug
Pump Spacer 1	10/31/2007 12:15		3	5			200.0	
Pump Cement	10/31/2007 12:21		3	17.5			140.0	
Pump Spacer 2	10/31/2007 12:27		3	1.2			60.0	
Pump Displacement	10/31/2007 12:27		3	43			60.0	
Unknown Event Number	10/31/2007 12:43							pull stands and circ w.o.c. wash up truck get ready for 3rd plug
Safety Meeting - Pre Job	10/31/2007 17:30							
Pump Spacer 1	10/31/2007 17:48		3	5			200.0	
Start Job	10/31/2007 17:48							2 plug was 134' low set 2 plug again sat at to 3767 to 3633
Pump Cement	10/31/2007 17:54		3	12			220.0	
Pump Spacer 2	10/31/2007 17:58		3	1.2			100.0	
Pump Cement	10/31/2007 17:59		3	46			100.0	
Unknown Event Number	10/31/2007 18·15							pull stands and circ w.o.c. wash up truck get ready for 3th plug
Unknown Event Number	10/31/2007 20:03							pull 8 stands and circ while w.o.c. wash up truck get ready for 2nd plug
Start Job	11/01/2007 00:52							plug set @2627 to 2477
Pump Spacer 1	11/01/2007 00:52		3	5			200.0	
Pump Cement	11/01/2007 00:58		3	13.5			220.0	
Pump Spacer 2	11/01/2007 01:03		3	1.3			90.0	

Sold To #: 301145

Ship To #:2609631

Sales Order #:

5463052

SUMMIT Version: 7.20.130

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		ime bl	1	sure sig	Comments
		#		Stage	Total	Tubing	Casing	
Pump Displacement	11/01/2007 01:04		3	30			70.0	
Unknown Event Number	11/01/2007 01:14							pull stands and circ w.o.c. wash up truck get ready next plug
Safety Meeting - Pre Job	11/01/2007 05:30							
Start Job	11/01/2007 05:51							3rd plug again set @2500
Pump Spacer 1	11/01/2007 05:52		3	5			180 .0	
Pump Cement	11/01/2007 05:57		3	6.5			190.0	
Pump Spacer 2	11/01/2007 05:59		3	1.2			130.0	
Pump Displacement	11/01/2007 06:00		3	28			90.0	
Unknown Event Number	11/01/2007 06:20							pull stands circ lay down drill pipe get ready for surface plug
Safety Meeting - Pre Job	11/01/2007 11:25							
Pump Spacer 1	11/01/2007 11:26		2	3			50.0	,
Start Job	11/01/2007 11:36							100" surface plug
Pump Cement	11/01/2007 11:42		2	8			50.0	
Shutdown	11/01/2007 11:45							water to pit open casing valva
Pump Cement	11/01/2007 11:46		2	10.5			50 0	cement @ casing valve
Shutdown	11/01/2007 11:48							lay down drill pipe
Pump Cement	11/01/2007 12:06		1	11.5			10.0	top out 11.5 bbl cement total
End Job	11/01/2007 12:07							
Comment	11/01/2 0 07 12:12							cement arrives on location
Safety Meeting - Pre Job	11/01/2007 17:21							

Sold To #: 301145

Ship To #:2609631

Quote #:

Sales Order # :

5463052

SUMMIT Version: 7.20.130

